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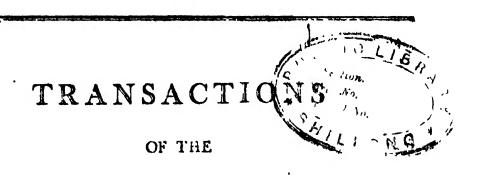
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Remarks on the State of AGRICULTURE, in the District of DINA'JPUR.

BY W. CAREY.

In the southers part the cound rises in gentle inclusives, which run from north to south, and are divided from each other by valles running between them: the whole resembling large waves, or rather the appearance of the sea when there is a great swell. The width of each valley is two or three miles, and that of the elevations about the same. Each valley is watered with one or two little streams, as the Tanguam, the Purnabhavá, and several others, which empty themselves either into the Mahánandá or the Garges. The small rivers swell in the rainy season to large lakes, fifty or fixty miles in length, and two or three in breadth, overslowing all the low lands, which are dry in the cold sea-

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stancely higher than the surface of fifty miles from the Ganges, are surely higher than the surface of its waters; when therefore that siver is swoln by the periodical rains, the waters of the vallies are not only prevented from running off, but are so much increased as to be navigable for vessels of very considerable burden.

The foil of the elevated portions of land is in general a stiff clay, in some places black, and somewhat porous, in others white and tenacious. The soil of the values resembles that of the elevated parts, and that of others is rich and loamy, with a substratum, at a greater or lesser depth, of the same kind of clay which forms the higher grounds. These low lands are for the most part covered with long grass of different sorts, and afford pasture to a great number of buffaloes and to large herds of other cause.

THE northern parts of the district are more level than the southern ones, have a loamy soil, and are well cultivated. Some tracts of clay land are, however, the found, and it is probable that clay is the substratum of the whole;

The higher lands in the fouthern part of the district are principally inhabited by Musulmans, and the vallies by Hindus. The mode of cultivation and the productions of the elevated parts, differ widely from those of the vallies, so that those who have been accustomed to one of these forts of land only, can seldom manage the other to advantage.

On the higher clay lands very little besides rice is produced, and, except in very small spots which are well manured, only one crop in

a year. The loamy vallies which do not lie so low at to endanger the inundating of the crop, produce, not only rice, but also a good crop of mustard, or pulse in the cold season. The land which produces two crops in a year is called *Palli*, and is usually let at a rupee and half per Bighá. That which produces only one crop is called *Khár*, and is usually let at twelve annas per Bighá.

The people of the district of Dinajpur are, in general, extremely poor, and their farming utenfils are therefore proportionably fimple and wretched. A plough drawn by two bullocks, serves to prepare the soil. The plough is composed of four pieces; viz: the Lángal or body of the plough, which is a piece of wood forming two fides of an obtuse angled triangle, the other side being wanting, with a hole near the obtuse angle to admit a staff of wood or bamboo about six feet long, called the is. This staff may be called the beam of the plough, and is the part to which the bullocks are yoked, going between them and resting on the yoke by which they are count of The ploughshare (Phal) a flat plate of iron, nearly of a lozenge flags, which is fastened to the under part of the Lángal, to prevent its being worn by the foil. The handle is a piece of wood, or bambon, about two feet long, fastened to the upper extremity of the Langal, and furnished, at a small distance from its upper end, with a pin about fix inches long, called the Mut, to affift the hand in guiding the plough.

THE oxen draw double, or fide by fide, being coupled together with the Juál, or yoke, which passes over the necks of both of them at once. The lower edge, which lies on the neeks of the cattle, is straight.

The upper edge has two elevations, one over the neck of each ox, but is cut down at the middle and at each end, so as to remain about two inches deep. Four bamboo pins are passed through the yoke, one at each end, and two in the middle, which descending on each side the animal's neck, are connected by a cord under its throat. The beam of the plough rests on the middle of the yoke and is sastened to it by a cord.

Only one person attends a plough, holding the handle in one hand, and coordically pulling the tails of the oxen with the other, to guide there, or initing them with a fack to quicken their pace. A pair of oxen man be purchased for fix or eight rupees, a plough for five annas, and a voke for four. An instrument called Man is drawn over the field after it has been sufficiently ploughed. This may be called the harrow of the Hintus. It is made of bamboo, in the form of a ladder, and is four or five seet in length. A cord, failened to the centre of this rude instrument, is connected with the centre of the yoke, and the driver stand on the harrow, assisting its operation by his weight, and guiding the cattle with his hands. Land pulverized and laid smooth with the Man retains its moisture, and is fit to receive seed in dry weather, several days longer than it would be if this was neglected. The Hindus call the operation, when performed for that purpose, Rashandhan, or the confining of the moisture.

In dry seasons it is often necessary to water the fields. For this purpose an instrument called a Jant is used. The Jant is a trough of light wood, from twelve to sixteen feet long, somewhat curved to admit a greater depth in the middle, the bottom is five or six inches wide, the

height of the fides in the middle part is fix or eight michely gradually decreasing towards the ends, one of which is stopped with a square board to prevent the water from running back and being lost. When this instrument is used, it is flung to three bamboos placed erect and croffing each other in the centre; a long and heavy bamboo, loaded at the further end with a large ball of earth, is then fastened to the end which is to be plunged into the water, and thrown over the three erect bamboos, resting on the top of them. A person standing on a stage, even with, or somewhat below the surface of the water of a pond, river &c. then plunges the end of the Jant into the water, with his foot, by which means it is filled. The weight at the end of the long bamboo affifts him in raifing it out of the water, and throwing its contents into a small reservoir, or pit, from which it is conveyed into the fields, by channels cut for that purpose. Two feet, or two and a half, is the height to which water can be thrown with effect by this machine; when the height is greater, two, three or more Jants are used, and in that case the water is thrown into small reservoirs; or pits, at a proper height above each other, and sufficiently deep to admit the next Jant to be plunged deep enough to fill it. Water us by this means sometimes conveyed to the distance of a mile or more on every side of a large tank or refervoir of water.* I have seen fifty or fixty Jants at one

^{*} Qu. Is not this the watering with the foot mentioned in Scripture, Deut. xi. ver. 10. and may there not be an allusion to the facility with which this water is directed at the will of the husbandman, in Prov. xxi. yer, 1?

time, in a large receptacle of water called Mahipál-dighi, about fix cois-from Dinájpur

To remove earth from one place to another, a yoke of bamboo is furnished with two appendages, called Bhárua, somewhat resembling a coarse sieve, the outside composed of split bamboos wattled or twisted over each other, and the middle part of twine, woven somewhat like the bottom of a sieve. These vessels are about a soot and half in diameter; when loaded with earth, or any other substance, they are carried with the yoke. The yoke lies across one shoulder, one weight hanging before and the other behind, and is occasionally shifted from one shoulder to the other.

THE Kodáli, or digging-hoe, is, in this district, set much more towards the earth than in the southern parts of Bengal, sorming an angle of about fixty degrees with the handle, whereas about Calcutta the angle is not more than thirty degrees. This instrument is used to dig the earth, or to grub up roots, and destroy the coarse grass, when land is to be first broken up. The Kodáli is a very useful instrument, answering the purpose of both spade and hoe.

The last instrument of husbandry which I stall mention is the Kastya or Indian sickle. The blade is curved, and the edge toothed like a sickle, but it is much smaller and more rude than the European one. The length of the blade is about eight or ten inches, and its greatest width one and a half. It is fixed in a rude handle; and is used to cut corn, grass, or even brushwood upon occasion, being to the

Hindu a very useful instrument, although a European labourer would searcely pick one of them up, if he saw it lie in the road

RICE is the staple production of the dictrict. Four kinds (including several varieties) are principally cultivated; viz. the Bhaduí, so called from its ripening in the month Bhádar, the Hemat so denominated from its ripening in the cold season, the Buná, and Bohara.

The first of these is chiefly, though not exclusively, cultivated on the lower, and loamy lands; on these soils it is constantly sown by broad-cast, in March, April or May, and the quantity sown depends upon the quantity of rain which falls in those months. The season of cultivation is sometimes extended near a month longer than it would otherwise be, by transplanting the rice, while young, into the fields, or the more elevated lands. When it is sown early on the higher lands, a second crop is sometimes produced upon the same spot; but, that which is sown late in the season, ripening proportionably late, so much interferes with the planting of the Hemat rice, that the latter crop is often scarcely worth the gathering.

This tice, when fown on the lower and loamy foils, requires weeding. A large quantity of weeds, particularly panioum ciliare, often fprings up among it: these weeds, if not extirpated, infallibly ruin the crop. It is also necessary to open the soil, after a heavy shower, by drawing a large drag over it; but no other attention is requisite, till the harvest, when it is cut and housed in the usual way.

THE Hemat rice is usually cultivated on the higher and strong lands, . a stiff foil being better calculated to petain the water after the end of.

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the periodical rains. This rice is usually sown at the end of May, or the beginning of June, in small beds, as thick as it can possibly grow. The plants come up in three or four days after the seed is sown, till which time the ground is kept barely moist: after the plants appear it should be kept quite moist, but not slooded. As soon as the rains commence and the earth is well watered, this rice is planted out in beds, so compartments) each of which is surrounded with a balk, or border, about ten inches high, and a foot wide, to prevent the water from running off.

WHEN a field is first formed, these mounds or borders are thrown up with the Kodáli. The earth is then repeatedly ploughed, till it is completely mixed with the water, and reduced to a foft mud. Five, fix, and sometimes eight ploughings are necessary, to destroy the weeds and completely diffolve the clods, after which it is smoothed by drawing the Maï over it, till the surface is so level that the water stands at an equal height in every part. When the field is thus prepared, the young plants are transplanted from the seed bed by the hand; eight or ten of them being usually, planted in one hole. These holes, which are about nine inches afunder, are made by forcing the hand with the young plant into the mud; the plants are lest there in an erect position, after which the admission of water settles the roots. When the whole spot is planted, water is admitted from a neighbouring compartment, or from a ditch, a trench or some other reservoir, and if possible constantly kept at the height of at least three (or four) inches. If there be too much water in the field, it is allowed to run off, by cutting a . passage for it through the border, and when a sufficient quantity is sud

off, the rest is retained, by shutting the passage with a clod of lost earth. This crop requires no weeding, or at most but a very trisling one, the water being sufficient to destroy the noxious weeds. If the season be very dry, the field must be supplied with water from some neighbouring pond or reservoir, as the only means of preserving the crop: attention to this is peculiarly necessary while the plants are young, for if the earth be permitted to grow hard, the plants seldom thrive afterwards; when they have acquired a size sufficient to overshadow the ground, the moisture is retained for a longer time, and the crop suffers less, but water is absolutely necessary to the perfection of a crop of rice. In November this crop begins to ripen, and the harvest is usually sinished by the end of December. As there is little fear of rain at this season, the crop is housed and stacked, without any loss or difficulty.

The Buná rice is usually sown in April or May, in low lands, where a slood of several feet deep may be expected; if the sloods come suddenly while the plants are young, the water rises above them and the crop is lost; but if the plants are strong and the water increases gradually, the rice will grow as fast as the water rises. This crop will answer tolerably well, if the water be four, six, or even eight feet in depth, the stalks sometimes acquiring the length of ten or even sisteen feet; but as they are weak and lie in an oblique position, they do not easily rise above eight feet of water. This crop ripens in November. The upper part of the plants on one man's land being drawn by a gentle stream, or by some other cause, often fall on his neighbour's field and occasion quarrels at the time of reaping.

THE Bohara, rice is sown in October or November like the Hemat, and about January planted at the bottoms of tanks, or pits, or on very low ground where it can be supplied with water. It is treated in every respect like the Hemat, and ripens in April or May. This is an excellent fort of rice, but the quantity cultivated is necessarily small.

THE next article of cultivation is indigo, a plant for which many parts of this district are improper, as it will not grow on the white clay lands called Balka, is sparingly produced on the black or red clays, and as most of the soft and loamy parts lie so low as to be subject to sudden inundations, which infallibly destroy the crop.

THE proper season for sowing indigo is in April and May. Some have fown it at the end of September or the beginning of October, and others in any month from October to March. That sown in September, or October, or even in November, will frequently produce a crop, if the land be not low and damp. It is better to fow, on low damp foils, in December, January and February, when the feafon will foon become warm enough to obviate the danger arising from the Some have fown a winter crop with this indigo, which as it affoil. fords the young plants a shelter in the cold season, may be esteemed a good method. Mustard, ripening very early, is the most improper for this purpose, because it leaves the indigo exposed at the very seafon in which it requires shelter. The young plants, at this season of the year, are often greatly injured by the treading of cattle; and the crop is seldom so good as that which is sown in the proper season. If the season be favorable, and the whole crop be sown in March, April or

May, (for which repeated rain is absolutely necessary,) and be weeded before the periodical rains set in, an abundant crop may be expected. Indigo sown in June seldom repays the labour of the husbandman, the rains, then setting in, usually injure the plant while young, or produce weeds in such abundance, that it is choaked by them, and generally perishes.

The present method of cultivating indigo is subject to many inconveniencies, and therefore liable to many objections; but as the whole business is conducted by giving advances of money to the Ryots, previously to their sowing the seed, and by receiving the produce at a certain number of bundles of a given measure for a rupee, and as many of them scarcely ever intend to sufficult their engagements, the application of a remedy would be difficult, especially as the devising of it must depend upon experiments, to the making of which the poverty and prejudices of the cultivators would prove an almost invincible obstacle.

CORCHORUS olitorius, Corchorus capsularis, and Crotalaria juncea are sown in April, May, or June. The sibres of these plants are much used for cordage, and for making sackcloth, and are very valuable for these purposes. The Eschynomene cannabina, is sometimes though but seldom sown in this district, but is more abundantly cultivated in the southern parts of Bengal. The sibre of this plant is less valuable than that of the Corchorus. There are two varieties of the Crocaria juncea; one, sown at this season, often grows ten or twelve cet high; the other variety is sown in October, and rises to the height sour or sive seet.

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'AFTER the earth is properly ploughed, cleansed, and pulverized, the sceds of these plants are sown very thickly. The natives say that they should be sown so close together that a serpent cannot creep between them. This prevents the plants from throwing out branches, which would be highly injurious to the sibre.

As the growth of these plants is extremely rapid, the crops suffer but little from weeds; if the weeds however should be numerous, they must be extirpated by the hand.

When the Sana* has done flowering, and the feed vessels have nearly attained their full size, sometime before the seeds ripen, it is cut down, and tied in small bundles, each containing ten or a dozen plants. The bundles are then set upright in water (about a foot or a foot and half of the lower part of the stalk being immersed) and continue in that situation one day; by this means the upper, and comparatively tender, part of the stalk is somewhat dried. This occasions a greater similarity in the quality of the sibre taken from different parts of the same plant.

AFTER the Sana has thus flood erect for one day, it is fleeped in a pond, or some other receptacle of water, to promote the separation of the sibre from the stalk. This process is as follows: a number of the small bundles abovementioned are laid one upon another, so as to form a heap five or six seet wide, on each side of which three or sour stakes are previously set, to prevent its falling down. A quantity of cow-dung is then spread over the heap, about two or three inches in

[·] Crotalaria juncea.

threkness; upon this a layer of straw of about a soot and half, and over the whole a quantity of earth sufficient to sink the heap till the upper part is five or six inches below the surface of the water. In two days and a half, or three days at farthest, the putrid sermentation is carried to a sufficient extent.

The Sana is then taken out, and the fibre stripped from the stalk in the following manner. A man standing up to his knees in the water, takes a few of the stalks, and, having broken them about a foot from the lower end, holds them with the large ends from him, and strikes them on the surface of the water, till the broken pieces are separated, and sall off. Then turning them, he takes hold of the fibres which are freed from the broken pieces, and beats the small ends, in the same manner, on the water, till the fibre is entirely separated from the stalks; a few strokes are sufficient, and by a few more it is cleansed from any mucus, or fragments of stalks, which may have adhered to it. It is then dried and packed up for the market.

The chief thing to be attended to in this process, is the proper regulation of the putrid fermentation; if this be not carried to a sufficient extent, the sibre will not separate, and if carried too far, the quality is injured. The most experienced natives account two days and a half a proper medium. The fermentation is doubtless quickened or retarded by the state of the weather, but the difference occasioned thereby is so small, that the Bengal sarmers entirely disregard it.

THE Crotaliria, cultivated in the neighbourhood of Calcutta, and is probably that cultivated in all the southern parts of Bengal, is account-

ed much inferior to that cultivated in the northern parts of the country. The natives attribute this to the difference of soil. This may have some effect, but it is probable that the variety cultivated in the south, is inferior to that cultivated in the north; as, even there, the large variety is preserved to the smaller one.

Phaseolus Mungo is usually sown in small fields about the beginning of June, and generally produces a good crop; it will thrive only on high and good land. Phaseolus radiatus is sown in July and August, on land where another crop has failed, and, not unfrequently, on old sward, or on land which could not be regularly cultivated. The seed is scattered over the land, often without any ploughing at all and at most the plough is only drawn over the surface so as to make a sew slight scratches. This crop ripens in October. It is obvious that much produce is not to be expected from such a mode of culture. The crops are indeed light, but are often sufficient to pay the rent of the land. A more rational method of cultivation would doubtless be far more productive.

The low and loamy foils, after having produced a crop of early rice, are usually sown with the seeds of some other plant, in October or November. The mode of culture for all the cold season crops is nearly alike. The natives seldom begin to sow till about the sull moon in October, supposing that the soil possesses a pernicious quality, which burns up the young plants, till the cold season is well set in. Indeed, before that time, the quantity of mossiure in the soil is too great, and the heat of the season unfriendly to these productions; so that though the

plants will come up, they are yellow and fickly, and either Toon periffi, or continue small, stunted, and unproductive.

Mustard feed is fown in great quantities at this season. Three kinds are usually cultivated; viz: Surshapa, vulg. Sursha, Raya, + and Sheta Sursha + The first is the most esteemed, though the other two kinds are as productive, and perhaps more so. The Sinapis dicholoma rises about two or three seet in height, slowers in the latter end of November, or the beginning of December, and is usually ripe in January. S. ramosa grows sometimes sive or six seet high. It slowers in the end of December, or in January, and ripens in February. S. glauca grows two or incree feet high, and ripens in February. This kind, having a strong and disagreeable smell, is less valued than the other sorts. When the crops of Mustard are ripe, the plants are carefully pulled up by the hand, and carried to a place in the field, smoothed and prepared for the purpose, where it is soon after thrashed and winnowed.

FLAX, though abundantly cultivated in the central parts of Bengal, for its use in making oil, is but little cultivated in this district. The natives know nothing of the use of its fibre to make thread. The oilmen usually mix the linseed with a quantity of mustard seed, to promote the expression of the oil. This so injures its quality, that Indian linseed oil is unsit for painting, or the other useful purposes to which it is applied in Europe.

Sinapis dichotoma.

t S. ramola.

[‡] S. glauca.

[∫] Linum usitatissimum.

MANY parts of this district are very proper for the cultivation of wheat and barley, notwithstanding which, very little of either is sown. The kind of wheat found in these parts is bad, the structure produced therefrom is of a very dark colour, and consequently sinds no market among Europeans. The native merchants on this account make no advances for it, and this want of a market is the reason alleged why it is not cultivated to a greater extent. For the purpose of making a trial I sowed Patna wheat, on a large quantity of land, in the year 1798; the slour produced from which was of a very good quality.

SEVERAL kinds of pulse are sown at the commencement of the cold season, the principal of which are Kesari, Mashuri, and But. The seeds of the first of these kinds are sometimes scattered among the stubble of the Buna rice, and produce a good crop without surther trouble, but the most usual way is to sow it on land previously well ploughed and cleansed, in the same manner as for the other sold season, crops.

Tobacco is cultivated to a confiderable extent on low and loamy land. The feeds are flown on a small plat or feed bed, soon after the conclusion of the rains, where they are shaded, and watered, if necessary, till they are large enough to be transplanted into the field. The land for tobacco must be well ploughed, and manured, after which the young plants are transplanted in rows, much in the manner that cabbages are planted in England, and at the same distance. The young plants require continual attention, the ground between them must be

[·] Lathyrus sativa.

t Ervum lens.

[‡] Cicer arictinuin.

sepestedly loofened, and the earth drawn to the roots, till they have acquired a sufficient growth: they are then cut and dried for use.

THE egg.plant," and several species of capsicum, are planted at the same time, and in exactly the same manner, as tobacco. The fruit of the egg plant is much used all over India, as an article of food, as is the capficum to give a pungent taste to several Indian dishes. I have not observed that these plants are planted in this district at any time except the commencement of the cold feafon, and there is reason to suppose that they would not succeed if they were; though in the southern parts of pagal, they prosper very well when planted at the commencement of the rainy feafon. Several other plants are cultivated as articles of food, some to a greater and others to a less extent. The cucurbitaceous plants are often fown in the fields, and the advantage of cultivating them is confiderable. The forts most cultivated are cucumbers of two forts, the one fown in April and yielding fruit through the rainy season, and the other sown from November to Feb-Auary, and yielding fruit till the rainy season sets in. Karaila, + Terbuz, † Dudh Kushi, | Jhinga, & Taroi, T Kankrol, ** Lau, ++ Kaddú II and the Konhra, or Pumkin, 66 The three last of these are suffered to run over the houses, and sometimes on a bamboo stage,

^{*} Solanum Melongena.

[†] Momordica carantia,

Cucumis pentangulus.

tt Cucurbita lagenaria.

[#] Cocurbita citrullus,

[¶] Cucumis acutangulus.

¹¹ Cucurbita alba-

Trichofanthes anguinas

or Momordies mixts-

ff Cucurbita pepo.

and produce fruit sufficient for the expenditure of the cultivator, but fides furnishing a large quantity for the markets.

The sweet potatoe is planted at different scasons in different parts of Bengal, but in this district it is planted at the beginning of October, The ground is previously ploughed to as great a depth as possible, and then cuttings, taken from a small spot reserved for that purpose, are planted; these cuttings soon take root, and afterwards require no surther care, till the roots are sit to be taken up, which begins to be the case at the end of December, and continues till May, during which time the produce is dug up and carried to market in the convenience of the cultivator. Another variety, of a white convenience of the cultivator. Another variety, of a white convenience of the substitute sweetness, and a small species of yam, the root of which is about the size of a goose's egg, are cultivated in the more such them parts of the district. The cuttings of the plants of the convenience, and the small roots of the yam, are planted in April or May, and the produce brought to market in October or November.

Three, varieties of the Arum esculentum, (Cachú of the Hindus,) are usually planted in March or April. The cultivation of these roots, occupies a considerable portion of the soil, and the produce is as important as potatoes to the people of England. The offsets from the root are planted in rows, about a soot and half or two seet as after Europe. The periodical rains being ended, the leaves die away; after

Convolvulus batatus.

which, from November to March, the noots are taken up, and earried to market, as luss the convenience of the cultivator. These roots abound with a sarinaceous substance, or rather with a viscous, starchy substance, and are esteemed very nutritive. The Mán Cachú, and the Ol, are cultivated in small spots. The root of the sust of these is often two or three seet long, and nine inches or a foot in diameter. It is necessary to lay this root to dry for two months or more, otherwise it is too acrid to be eaten; after this it is very wholesome, though not very palatable. As all the sorts of Cachú will keep for almost any length of time, it might be worth attention as an article of provision for sea voyages.

In shady situations, where the soil is rich and loamy, ginger and turnieric flourish. The offsets are planted at the same time with, and the whole culture is exactly the same as that observed for the arum. The leaves die of the those of arum, soon after the rains, and the roots are fit to be taken up in January. The turmeric is very descient in colour, and the ginger less pungent, if taken up too soon. The farmers therefore let it remain in the ground till the leaves are entirely dried up. Ginger is usually sold green, and only a small proportion dried, for foreign market or home consumption. After the roots of the turmeric have been well cleaned and picked, they are boiled over a fire made with the decayed leaves of the plant, (the natives supposing such a fire to have a peculiar kind of virtue,) after which they are well dried in the sun, and reduced to powder by the Pedal, or by the

[†] Arum macrorhizon.

A. Campanulatum.

wooden mortar and festle. In this state they are usually carried to market. The soots are sold likewise before they are pulverized.

On moderately high spots, where the soil is good, the sugar-cane is planted in February and March. The spot designed for sugar-canes is usually surrounded with a ditch, the earth dug from which is heaped up round the field, in the manner of a wall, and serves to desend it from cattle. After the spot has been well ploughed, or dug up with the Kodáli, cuttings of ripe canes, consisting of about three joints, are planted somewhat slanting, in rows, about two seet, or at most three seet distance, and about a foot asunder in the rows. The fields must be often watered and cleansed from weeds. When the canes are about sour feet high, they are tied in bunches, about three or four stalks forming a bunch: this permits the air to circulate among them and facilitates their ripening. The canes, when ripe, are cut, and either carried to the mill or to the market.

The cultivation of the plantain is a profitable branch of husbandry, requiring but little labour, and making a certain return. Spots near to the habitation are chosen for this purpose, to guard against the depredations of thieves. The young plants or suckers are taken from old plantations, and planted at about six or eight seet distance, each way. They may be planted at any time of the year, but May or October is usually chosen. The root is all cut off previously to planting, except a small part with a few fibres. The ground is ploughed, either before or after planting, as it suits the convenience of the farmer; and a crop of some other plant is advantageously cultivated on it,

tinue to do so for some years; each clump will produce about two bunches in a year. It is necessary to plant a new sield at the end of three or sour years; because, when the clumps become large, the fruit is small, and the bunches contain a smaller number of fruit.

THE Cytisus Cajan is frequently fowed round fields of sugar-canes, egg plant, and other things: this, while it makes a slight and well looking sence, is also a source of profit to the cultivator.

firongly operate against improvements in agriculture. Could an adequate remedy be found for these evils, many other things might be cultivated with great advantage. Hemp would flourish in many spots; cotton, scarcely cultivated at all in the district, might be cultivated to a large extent; if proper methods were taken to introduce the best kinds, the culture of wheat and barley might occupy many thousands of Bighás, which now lie in an uncultivated state. The culture of some species of Hibiscust would be profitable, and surnish one of the most durable sibres for coedage, and, perhaps for coarse cloths.

THE cultivation of timber has hitherto, I believe, been wholly negliefted: feveral forts might be planted all over this district, and indeed all over Bengal; and would soon surnish a very large share of the tim-

[•] I have not observed that any of the smaller grains, such as Paspalum, Holcus, &c... are-estivated in this district: they would undoubtedly prosper in many situations.

[†] Particularly H. cannabinus, H. furattenfis, and H. strictus.

Jaca-tree, the Teak, the Mahogany, the Sattin-wood, I the Chakraín, the Tuna, the and the Sirisha, the Sattin-wood, I the Chakraín, the Tuna, the and the Sirisha, the Sattin-wood, I the Chakraín, the Tuna, the and the Sirisha, the Sattin-wood, I the Chakraín, the Tuna, the and the Sirisha, the Sattin-wood, I the Chakraín, the Tuna, the and the Sirisha, the distance of a surlong from each other, would do no injury to the crops of corn, but would, by cooling the atmosphere, rather be advantageous. In many places, spots now unproductive, would be improved, by clumps or small plantations of timber, under which ginger and turmeric might be cultivated to great advantage.

In some situations Sál, || || Pitsál, \sqrt{s} Jaral, II and some other sorts of less note would prosper.

INDEED the improvements that might be made in this country by the planting of timber, can scarcely be calculated. Teak, || that most useful wood, is at present brought from the Burman dominions, thought it would grow in any part of Bengal, and perhaps in any part of Hindustan. It appears, from the annals of the National Museum of Natural History, that the French naturalists have begun to turn their attention to the culture of this valuable tree, as an object of national

^{*} Dalbergia Sillio.

[†] Pterocarpus Dalbergius.

[‡] Artocarpus integrifolius.

Lactona grandis

[§] Seitenia Mahogani.

[¶] Swietenia chloroxylon.

[.] Saictenia Chi kraffa.

tt Cedrela túna.

^{##} Mimola Scercela,

III Shorea re outa.

If The gen of this tree is not yet determined.

[¶] Lagerstræmia ilos reginæ.

be attempted somewhere else. To England, the first commercial country in the world, its importance must be obvious, and the further encouragements of the culture of it in this country, will eventually furnish a supply of excellent timber, for ship building and various other important purposes, and obviate all apprehensions of the failure of the market where it is purchased, or of the destruction of the forests which have hitherto supplied it.

Most of the Palms, though useless as timber, deserve the attention of the agriculturilit. Hie Sago treet would grow in all the high parts, and the Date-tree, I planted close, would greatly improve many spots now wholly unproductive. The juice of this tree is manufactured into sugar, in some parts of Bengal, and is highly valuable for that and other purposes. It is common to let a tree of this kind for two annas a year. Two hundred of these trees might be planted on a Bighá, which lets for a rupee and a half; this would be productive of a large income, after the first eight or ten years.

Few attempts have yet been made to improve orchards. The Mango, and other fruit trees, are often planted to close as to choke each other, and but little regard is paid by the planter to the quality of the fruit. Scarcely any attempt has been made to naturalize foreign fruits; even the Orange-tree is almost a stranger to several parts of Bengal, though

[.] The cultivation of Teak has been encouraged by Government.

⁺ Saguerus Rumphii.

[‡] Phoenia Silvestris.

The laudable attempts made by feveral Europeans excepted, the improving of fruits, by grafting, or by raising improved varieties from seed; has scarcely been attempted. In short, the fruits of Hindustan are not far removed from a state of nature.

The remedy for these evils is obvious to every one, and the application of it would fully reward any person who would engage heartily in it.

In this district several obstacles-to agriculture present themselves to the same. Large numbers of wild benaloes and hogs inselfs the fields, and make it necessary for the samer to watch his crop, from the time it appears above ground, till the harvest is gathered in: as this watching is impracticable beyond a certain extent, is attended with much danger, and often ineffectual, the cultivation carried on by an individual must be proportionably limited.

The inundations, which are occasioned by the sudden overslowing of the rivers, frequently destroy the crop through a large extent of country, or so much injure it, that by this alone, the laborious husbandman is often so reduced in his circumstances, as to be unable, or so discouraged as to be assaid, to carry on the cultivation of the soil with any degree of spirit. The bealls might be destroyed, or their ravages prevented, in various ways; but it is difficult to provide sufficiently against the effects of inundations.

Perhaps the encouragement of cold season crops would be the best remedy for both: for the long grass being destroyed by the cultivation.

of the low lands, the wild animals would find no shelter, and indeed no sustenance, when the crop was off, which might occasion them to desert the country, and the cold season crop, though often less valuable than a crop of rice, might prove a remuneration for the labours of the cultivator, and by some improvements might be brought to such a state as to become a source of considerable profit.

Though these remarks relate chiefly to the district of Dinajpur, yet it is obvious that many of them will equally apply to the other parts of Bengal.

The improvement ref live stock, and introduction of dairies, the fencing and manuring of land, the introduction of wheel carriages, and a number of improvements of a similar kind, have not been hinted at, because the present state of society seems to render them to a great degree impracticable. Yet the rapid progress of agricultural improvements in England, encourages the hope, that a gradual improvement may also be effected in Hindoostan.

REFERENCES TO THE FIGURES. PLATE I.

Fig. 1.—The I lough.

- a. The Lángala, or body of the plough.
- b. The Is', or beam.
- c. The Phála, or share.
- d. The share, fixed on the plough.
- . The handle,

f. The Moot, or peg, to assist in holding the plough.

Fig. 2.—The Josal, Beng. or Yoke. (Sans. Yuga.)

- a. The under edge, which rests on the neck of the bullock.
- 3. 3. The elevations on the upper part.
- c. c. c. c. The pins, by which it is fastened to the neck of the ox.

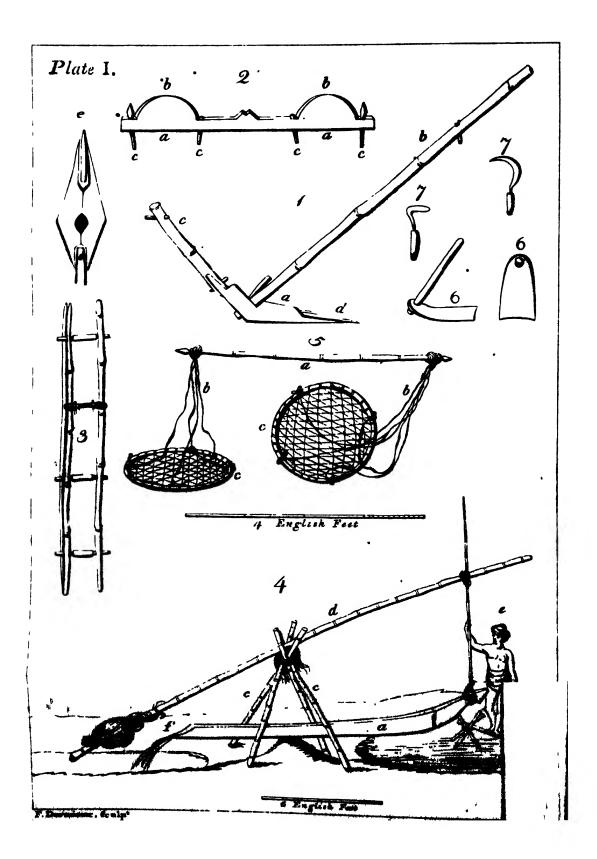
Fig. 3.—The Mai, or harrow. (Sans. Los'thhedhaná.)

Fig. 4.—The Jánt, slung for raising water.

- a. The Jant.
- b. The end, stopped with a square board.
- c. c. c. The bamboo to which it is flung.
- d. The bamboo, loaded at one end, to affift in raising the end' b out of the water.
 - c. A man working it.
 - f. The refervoir, or channel, into which the water is thrown.

- a. Bank, or yoke.
- b. b. The Shikya, or string by which the weight is suspended.
- c. c. The receptacles, in which the earth or other substance is carried.

Fig. 6.—The Kodáli, or digging-hoe.
Fig. 7.—The Kastya, or sickle.



An Essay on the Sacred Isles in the West, with other Essays connected with that Work.

BY CAPTAIN F. WILFORD.

ESSAY V.

Origin and Decline of the CHRISTIAN RELIGION in INDIA.

I. IT appears, that long before Christ, a renovation of the universe was expected all over the world, with a Saviour, a King of Peace and justice. This expectation is frequently mentioned in the Puránas: the Earth is often complaining that she is ready to sink back into Patala, under the accumulated load of the iniquities of mankind: the Gods also complain of the oppression of the Giants. Vishny comports the Earth his confort and the Gods, assuring them, that a Satisfour would come, to redress their grievances; and put an end to the tyranny of the Daityas, or Demons. That, for this purpose, he would be incarnated in the house of a shepherd, and brought up among shepherds. The followers of Burns'ha unanimously declare, that his incarnation, in the womb of a virgin, was foresold several thousand years, though some say one thousand only, before it came to pass.

A SHORT time before the birth of CHRIST, not only the Jews, but the Remans, on the authority of the Subylline books, and the decilion of the facred college of the Etruzian augurs, were all of opinion,

^{*} See also As. Res. vol. vi. p. 267.

that this momentous event was at hand. This was equally the case inthe east, and a miraculous star directed the holy men, who were living in anxious expectation, where to find this heavenly child. At that time the Emperor of India, uneasy at these prophecies, which, he conceived, portended his ruin, and the loss of his empire, sent emissaries. to inquire, whether such a child was really born, in order to destroy him: and this happened exactly the 3101st year of the Call yuga, which was the first year of the Christian Era. This traditionary account is known all over India: and is equally current among the learned and the ignorant. But the Hindus fancy, that these old prophecies were fulfilled in the person of CRISHNA. What induced the Brahmens, toadopt this idea, is not so obvious. It is possible, however, that they faw plainly, that if they admitted these prophecies to have been fulfilled about the time of CHRIST, some material alteration must, of course, have taken place in their religion. The Magi of scripture, who came from the east, were equally expecting this renovation; and the far ferved only to guide their steps. This expectation, of a renovation. of the world, prevailed also among the Gothick tribes in the north; but after waiting patiently for some time, certain enterprising men set themfelves up, for the promifed MANU, or new ADAM; and were acknowledged as fuch. According to their traditionary accounts, they were nettled, and puzzled with some strange reports from the east, about the appearance of some Esir, Asa, Gods, or godlike men; and GYLFE is. supposed to have been sent to inquire into the truth of these reports. His embassy is the ground work of the Edda, which concludes with. these remarkable words. "The new Asa, then, took to themselves the

sames of the ancient ones; and gave themselves to be the real Asa, or Gods." ODIN was one of them, and advancing towards the north. GYLFE surrendered his kingdom to him. In consequence of these notions of a change in this sublunary world, a new system of religion in Britain, was set up in opposition to the old one, according to the ingenious Mr. CLELAND: and this, he thinks, must have happened some time B. C. but, I think it happened later: for HENGIST and HORSA. were in the tenth degree of lineal descent from this new ODIN; who, of course, was contemporay with TREMMOR, who was deisied by FIN-GAL his great grandson; who appointed him an Elysium, from which the fons of the feeble were excluded, and priests also, I believe. That FINGAL, and his followers, held in contempt the old religion, is. obvious from the ancient Galic Poems. Probably the defeat of the druids in Anglesey, for so we may call it in spite of their spells, and holy texts churned from their sacred Vedas, accelerated their ruin, and that of their religion: this, with some obscure prophecies, foretelling, that a total change, in civil and religious matters, was going to take place, induced many clever and enterprising persons, to avail themsolves of all these circumstances; and to give out, either, that they were this expected divine being, or to deify their own ancestors. Fin-GAL succeeded most completely: for, till very lately, many of the Irish, among the poorer class, believed, that 'the fouls of the departed went into the Elysium of TRENMOR and MAC COWAL, according. to the industrious inquirer J. Good, who lived above 200 years ago: and, if the Christian religion had not prevailed soon after, TRENMOR would have been confidered, in time, as the supreme

being. In the same manner, the Emperor Augustus was of course consecrated a God, after his death; and, both before and after, temples were crested in his honor, and sacrifices offered to him. The courtiers of Antony, acting upon the same principles, declared, that he was Osiris redivious, born again, and that Cleopatra was Isis. Virgil adds, that the renovation of the world, so long foretold, was going to take place, and begin with the golden age as usual: then the Argonauts, in due time, with the Argo, would reappear: and that there would be another Typhis, a Trojan war again, in which Achilles would signalize himself.

THE Hindu traditions, concerning this wonderful child, are collected in a treatife called the Vicrama charitra, or history of Vicrama Ditya. This I have not been able to procure, though many learned Pandits have repeated to me, by heart, whole pages from them. Yet I was unwilling to make use of these traditions, till I sound them in the large extracts made by the ingenious and indefatigable Major C. Mackenzie of the Madras establishment, and by him communicated to the Asiatick Society.

WHEN I mentioned the Sibylline verses, I by no means intended the spurious ones, which are deservedly rejected by the learned: but the genuine ones, such as they existed in the time of VIRGIL; whose testimony is unquestionable, and incontrovertible. Whether these prophecies were really written by inspired women, is not now the question: they were certainly current all over the west, and this is enough for my purpose. There were several of them, and the most ancient were from the east. There was a Fersian, a Chaldean, an Fgyptian, and also, according to Pausanias and Elian, a Iudaia, or Jewish Sibyl from

Palestine. Such women probably never existed: but the prophetical verses, that were attributed to them, were extracted from the facred records of their respective countries. The fourth ecloque of Vergee is entirely on the subject of this long expected renovation of the world.

The last great age, foretold by facred rhymos,

In the original it is, foretold by the CUMCEAN SIBYL.

Renews its finished course; Saturnian times Roll round again, and mighty years, begun From their first orb, in radiant circles run, The base degenerate iron offspring, (or the Culi-yuga) ends, A golden progeny fof the Crita, or rolden age) from heaven descends: O chaste Lucina, speed the mother's pains: And haste the glorious birth; thy own APOLLO reigns! The lovely boy, with his auspicious face! The fon shall lead the life of gods, and be By gods and heroes feen, and gods and heroes fee. Another Typhis shall new seas explore, Another Argo land the chiefs upon the Iberian shore. Another HELEN other wars create. And great ACHILLES urge the Trojan fate. O of celestial seed! O foster son of Jove See, labouring nature calls thee to fustain The nodding frame of heaven, and earth, and main: See to their base restored, earth, seas and air.

THESE are the very words of Vishno to the Earth, when complaining to him, and begging for redrefs.

It is obvious, that VIRGIE confidered the momentous events of the Trojan war, the expedition of JASON in the Argo, and the rape of Helen of Lacshmi, as the necessary concomitants of a renovation of the world. The Califuga, according to Virgit, ended a little before

CHRIST, of whom he had no knowledge: and according to HESIOD, and the Jainas in India, the Cali-yuga began about 1000 years B. C. and lasted, of course, the same number of years, which were natural ones in the west, but are considered as divine years in India.

ABOUT 60 years before the birth of Christ, the capital of the Roman Empire was alarmed by prodigies, and also by ancient prophecies, announcing, that an emanation of the deity was to be born about that time, and that a renovation of the world was to take place. In the year of Rome 690 and 63 B. C. the Senate, having been convened on the ninth day before the calends of October, or the 23d of September, in order to prepare against imminent dangers threatening the Empire, the whole city was alarmed by new causes of anxiety. P. NIGID, FIGULUS, the intimate friend of Cicero, who was then conful, having heard C. Oc-TAVIUS apologising to the Senate for his coming so late, on account of his wife having been just brought to bed, exclaimed, you have then begot a lord and master unto us. This FIGULUS was in such estimation at Rome, that he was reckoned among the most learned men: and such was his superior knowledge of the mathematics, and other sciences grounded upon them, that he was believed to deal in the occult sciences. That exclamation of his threw fo much more terror into the minds of the Conscript Fathers, as for a few months before, it was constantly reported, that nature was bringing forth a king unto the world, and it was faid, that the same was afferted in the Sibillyne verses: Besides, oracles to that purport were constantly brought in from the most distant parts of the world. On this account, and more particularly on account of a prodigy that had just happened at Rome, the Senate; terrified, iffued a

decree, that no father, during the course of that year, should presume to list up from the ground, or bring up a new born male child. However, those among the Conscript Fathers, whose wives were with child, had the decree suppressed: and these prophecies and prodigies were afterwards applied to Augustus, who was born during the consulate of M. Tullius Cicero, sixty-three years before Christ; but fifty-six according to several writers in the east, such as the author of the Lebtarikh and others. Hence it is, that Nicolo De Conti, who was in Bengal, and other parts of India in the sisteenth century, insists that Vicramaditya was the same with Augustus, and that his period was reckoned from the birth of that Emperor, fifty-six years B. C.

In the year 119 B. C. in the time of Marius, such diresul prodigies appeared, that the facred college of Hetruria, on being consulted, declared that the eighth revolution of the world was at an end: and that another, either for the better, or the worse, was going to take placet: and Juvenal, who lived in the first century, declares that he lived in this ninth revolution, which was then going on: for the Etruscans recksoned twelve of these revolutions, each of one thousand years according to some: but according to others, these twelve revolutions constituted what they called the great year.

Ir may be asked, what prophecies are to be found in the Purán'as concerning this Saviour and avenger. I observed before, that the Hindus

^{*} See Supplement to Tir. Lev. cii. Decad. c. 39.

[†] PLUTARCH in SYLLAM, p. 436.

¹ JUVENAL Satyr xiii. v. 28.

would have it, that these prophecies were fulfilled long before, in the person of Crishna. In this, they were wifer than the Jews, who, by infisting that the Messian is not yet come, have plunged themselves into inextricable difficulties, and have been forced, at last, to give up any further inquiry into the time of his appearance. In this manner, many of the Samaritans, in order to elude the prophecies concerning Christ, insist that they were sulfilled in theperson of Joshwa, whose name is the same with Jesus, and who, according to the Hebrew text, was contemporary with Crishna; and they have also a book of the wars of Joshwa, with Scaubec, which may be called their Maha-bharat:

When I said, that the Hindus conceived, that the prophecies concerning a Saviour of the world, were fulfilled in the person of Crishna, Is do by no means wish to convey an idea, that he was Christ, from whom he is as distinct a character, and person, as Joshua; and whose name, with the general outline of his history, existed long before Christ. "Yet the prolix accounts of his life," to use the words of Sir W. Jones, "are filled with narratives of a most extraordinary kind, and most strangely variegated. This incarnate deity of Sanscrit romance, was not only cradled, but educated among shepherds; a tyrant, at the time of his birth, ordered all the male infants to be slain. He performed amazing, but ridiculous miracles, and saved multitudes, partly by his miraculous powers, and partly by his arms: and raised the dead, by descending for that purpose into the infernal regions. He was the meekest, and best tempered of beings, washed the feet of the Brahmens, and

^{*} Reland de Samarit. p. 15 &c.

preached, indeed sublimely, but always in their favour. He was pure and chaste in reality, but exhibited every appearance, of libertinism; lastly, he was benevolent and tender, and yet somened and conducted a terrible war." The Yadus, his own tribe, and nation, were doomed to destruction for their sins, like the descendants of Yahuda or Yuda, which is the true pronunciation of Juda. They all fell, in general, by mutual wounds, a few excepted, who lead through Jambu-dwipa a miserable, and wretched life. There are some to be found in Gurjarat: but they are represented to me as poor and wretched. "This motley story must induce an opinion," that the spurious gospels, which abounded in the first ages of christianity, had been brought to India, and the wildest parts of them ingrafted upon the old sable of Crishna." Several learned missionaries are also of that opinion, though they carry the comparison for. The real name of Crishna was Canera, and he was surmaned Crishna, or the black, on account of his complexion.

The Hindus, having once fixed the accomplishment of these prophecies to a period greatly anterior to the Christian Era, every thing in their books was either framed, or new modelled accordingly; and particularly in the Purdwas, every one of which is greatly posterior to our era: though many legends, and the materials in general, certainly existed before, in some other shape. Yet, as inconsistency and contradiction are the concomitants of falshood and deceit, it may be supposed, that some circumstances, and particulars, tending to remove the veil they have attempted to throw over these events, may have escaped them. This

^{*} As. Res. vol. s p. 2 g.

is very probable; but as I never had the most distant idea of ever investigating this subject, till very lately, I may probably have overlooked many passages of his nature; and I recollect now only two material ones, which I mentioned before. These prophecies, in the Puranas, concerning this Saviour, declare, that he was to appear in the latter end of the third, and in the beginning of the fourth age: which can, by no means, be reconciled to the Christian Era, according to their mode of reckoning. The two passages, alluded to, are to be found in the Padma and Gan'esapuran'as. In the first, BALL, an antediluvian, and in the fifth generation from the creation, is introduced requesting the God of Gods, or VISHNU, to allow him to die by his hand, that he might go into his paradise in the White Island. Vishnu told him, it was a favor not easily obtained; that he would, however, grant his request: but, says VIsy NU, you cannot come into my paradife now; but you must wait, the become incarnate in the shape of a boar, in order to make the undergo a total renovation, to establish, and secure it upon a mot and permanent footing: and you must wait a whole Yuga, till this tall place, and then you will accompany me into my paradife. A whole Yuga, or Maha-yuga consists of 4.320,000 divine, or more probably 4,320 natural years.* These, reckoned from the fifth antediluvian generation, will fall in, very nearly, with the beginning of the Christian Era, according to the Septuagint, and Josephus's computation. As to the number

These are a component part of the great year, or period of 12,000 years, used both in the cast, and in the west, and also in Persia. In India they say that these are divine years, but in Etruria and Persia, they insisted, that these were only natural years.

and, as these 5,000 years are not said to be divine ones, we have a right to suppose, that they were meant originally for natural years. Gan's a, who is identified with Vishno, and has also an inferior paradise in the White Island, and another in the Euxine or Ieshu Sea, thus says to a King of Casi or Benares, an antecilevian, and who, like Ball, withed much to be admitted into his clysium; "you cannot now enter my paradise in the White Island; you must wait 5000 years," when, it seems, it was to be opened. "But in the mean time, you may reside in my other paradise in the Euxine Sea." In the same manner Achilles, with Caston and Pollux, and I believe Cadmus, Peleus, &c. after residing a long time in the White Island in the Icshu Sea, were ultimately translated into the original White Island in the White Sea.

THE White Island in the Eustine or Ichu Gen, has much affinity with the Limbus Patrum or paradife of departed ancestors, who waistid there for the coming of Charse, who was to open the celekial, and real paint disc, for their reception.

DIVINES in India declare, that the Turest proof of the sivine mission of an Avatara is his coming being foretold: that prophecies concerning a Saviour are often repeated in them, some very plain, and others rather obscure: that they are, in short, one of the fundamental supports of their religion and creed. That CRISHNA is considered as the first, in dignity and principal incarnation; and that the others are greatly information to this, and merely introduced to bring on the grand system of regeneration. In his time, the divine oracles were committed to writing, with

a more complete and perfect fystem of moral duties, and religious workship; and a race of Brahmens more pure, more enlightened, was introduced into India. Chiefina is the last Avatara, or manifestation of the deity, but one; which, according to their facred books and ours, will appear a little before the general dissolution of the world.

But let us return to the manifestation of Vishnu in the shape of a Boar. mentioned in the former passage. This manifestation is acknow. ledged to be that of the white Boar: for according to the Tapi chanda. a section of the Scanda-purán'a, the Calpa of the Boar consists of four inferior ones, denominated from four manifestations of the great Boar: The first subordinate Calpu is that of the Curma-Varaha, or Tortoisebears this is the Curma-Avatara: the second was that of Adi-Varaha, called Adinatha also, particularly by the Jainas: this is the Varaha Avatara: the third is, that of Varaha, with the title of DRISHNA: and the fourth, and present Calpa, is that of the White Boar, and which is very little noticed in the Puranas. In the Prabhasa-c'hand'a, a sectionof the Scanda-purána also, these four Calpas have different names; and to them three more are added, making in all seven Calpas: and we are now in the seventh. These are the Calpas of Vishnu, under the feven different denominations of Śriya-vratta, Vamana contemporary with Bali, Vajranga, Camala-Prabhu (Camulus Deus). SWAHARTA, PURUSHOTTAMA, and the seventh, DAITYA-SUDANA. In the fourth Calpa of CAMALA'-PRABHU, 'and which is called also. the Calpa of VARA'HA,' fays the author, was born Icshwa'cu the fon. of NOAH, in the Treta or second age: and the four last Calpas answer to the four Calpas of the Boar, the last of which is that of DAITYA-

pire of the Dairyas or Demonsi. These four Calpas are sobviously to be seckoned from the flood. The Calpa of Purushortama, answers to that of Crishal, whose birth was followed by a general massacre of all the male children, through the whole country, by Cansa, in order to destroy him. But let us return to this wonderful child, who was to manifest himself to the world, when 3100 years of the Cali-yuga were chapsed, that is to say in the 3101, answering to the first year of the Christian Era, according to the Cumaricá-c'hand'a, and the Vicrama-charitra. According to the same respectable authority, the purpose of his mission, was to remove from the world wretchedness and misery: and his name was to be Saca, or the mighty and glorious King.

SA'LIVA'HANA was the son of a Tacshaca, of carpenter; and was born, and brought up in the house of a potmaker. God is called Deva-va-Tasht'a or God the artist or creator, in Sanscrie; and also Deva-va-Tasht'a or God the artist or creator, in Sanscrie; and also Deva-va-Tasht'a, from which is derived Deo-Tat or Teutat in the west; called Twasht'a or Tuisto by the German tribes. He produced Mannus, man, the first Manu, who had three sons. In Greece, according to Pindak, God the father of mankind, and creator of the world, was called ratist Apicotegous, the father and best artist. This carpenter, the father of Sa'liva'hana was not a mere mortal, he was the chief of the Tacshacas, a serpentine tribe, samous in the Paran'as. There, they are declared to be the most expert artists, and mechanics, in the world: and they are by no means confined to a few trades: but their skill embraces every branch. When the elephant Aira'vata, with his immense retinue in the same shape, came, in his way to the plains of Ut-

tara-Curu or Siberia, to worthip at Prabhasa in Gurjarat, they planned, and execused a road for him, through the N. W. quarter of India, which is faid still to exist. The Tacshacas, or Tacshas, have, as usual, two couns tenances, that of serpents, and a human one, which they assume at pleasure.

THE chief of them is obviously the same with the serpent Aga-Tho-Damon, the Demi-urgos, Opifex, and artist of the Egyptians, Greeks, Gnostics, Basilidians, &c. These sectaries afferted, that the serpent was the sather, and author of all arts, and sciences; and this serpent, they said, was the Christ, who was thus the son of a carpenter, and artist; and at the same time an incarnation of the great serpent, exactly like Sa'liva'hana, the Saca, or mighty and glorious King. Sa'liva'hana was the son, or eather an incarnation, of the great serpent: and his mother was also of that arine, and incarnate in the house of a pot-maker. She conceived at the age of one year and half, the great serpent gently gliding over her, whilst she was asserped in her cradle.

The herely of the Ophites spread widely at a very early period: they extolled the serpent, as the author of the science of good and evil. Such was, they said, the majesty and the power of the brass serpent, exposed upon a stake in the adelert, that whatever man looked up to him was immediately cured. In the same manner, that the serpent had been exalted upon a stake in the desert, for the good of the people, so it was necessary that Christ should be exalted also, upon a stake or

Cun.áiscá-chanda. p. 155.

erois, for the good of mankind, and in a scriptural sense this serpent was the type of the Saviour of the world.

The pot-maker used to make figures of clay of all forts, to amuse his grandson; who soon learned to imitate them; but he endued them with life. His mother carried him one day to a place sull of serpents, telling him, "go and play with them; they are your relations." The child went and played with them, without fear, and without receiving the least injury. These two last particulars are never omitted by the narrators:

ABOUT that time VICRAMA'DITYA, the Emperor of India, was made very uneasy, by general rumors, that the old prophecies were accomplified in the person of a child born of a virgin, and who would conquer India, and all the world. He sent emissaries every where to inquire into the truth of this extraordinary event, and find out this heaven-born child. They foon returned, and informed him, that it was but too true, and that the child was then in his fifth year. VICRAMA-DITYA immediately raised a large army in order to destroy the child, and his adherents, in case he should have any. He advanced with all possible speed, and found the child surrounded with innumerable figures of foldiers, horses; and elephants. These the child endued with life, and attacked VICRAMA'DITYA, who was defeated, and left on the field of battle, mortally wounded by the hand of young 'Sa'LIVA'-H'ANA.* The dying monarch only begged of his conqueror, that he would allow his own period to be equally current all over India with his. This the child granted, and then cut off his head, which he flung into the middle of the city of Ujjayini; though at an immense distance.

[·] See Asiat. Research. Vol. IX, p. 118, 120.

In the mean 'me Vice amain : va's army fell back toward Vicinit, purfunded by Sa's Ive'n Ya's forces, and in their way crefted the Normada. There, the army of Sa's Iva'nana, confi ting of follers of more clay, was fuddenly diffolved, and dispersed in the waters of the river. After this, we hear no more of Sa's Iva'nana, except that he dispersed in the 79th year of the Christian Ira, which is the first of his period. His name is not even mentioned in the lists, either of the Emperors of India, or of the Kings of Vijain. Immediately after the death of Vicramaitya, his wife was delivered of a son, whom they wanted to crown Emperor of India, in the same manner as if 'Sa's Itava'nana had never existed: but being a posshumous child, he could not succeed to the empire; he was, however, perfectly eligible to the throne of the kingdom of Malava; and was of course immediately crowned at Upjain.

This took place, according to the Cumarica chanda, in the first year of the Christian Era, when Salliva hand was in his fifth year; and it is remarkable, that our Saviour was equally in his fifth year at that time: The principal circumstances of this legend are taken from the Apocryphal Gospel of the infancy of Jesus, written in Greek in the third century; of which, an Arabic translation, made at a very early period, is still extant. Henry Syke has given a translation of it in Latin, with some fragments still remaining of the Greek original. In these fragments it is declared, that the infant Jesus, when five years of age, amused himself with making figures of clay, which he endued with life. This idle story is mentioned also in the Korán, and is well known to Muslemans. This remarkable coincidence of

Thistorical facts, legendary tales, and also of times, in my humble opidion cannot be merely accidental.

THOSE, who acknowledge, that there are four Vicramas, always consider Salevahana as one of them, and asset that he had of course a samous bard at his court called Carlida'sa. Thus, when called Vicrama'ditya, he always appears alone as king of Pratishtana, and as such he is represented in the appendix to the Agni-puran'a. This is the samous King of Pratishtana, with the title of Tri-Vicrama, or with the triple energy, as we have seen before: but his real name was Vi-Sama-Sila, or simply Sama-Sila. As Pratishtana's acknowledged to belong exclusively to Saliva'hana, as Ujjayini: does to Vicrama'ditya, whatever King, called Vicrama, or Vicrama'ditya, is represented as sovereign of Pratishtana, the same is Saliva'hana and, when we find a Vicrama'ditya said to have lived or reigned eighty-sour years, him we must conclude to be Saliva'hana, according to the learned Pandits, and astronomers, who gave me this information.

THERE was a King at that time called Vicramamitra, the seventeenth from Chandragueta, according to the Bhágavat, Brahmánda, 'ziyu and Vishnu-Puran'as; and Vicramamitra of Vicramitra,
as it is erroneously spelt, is synonymous with Vicrama'ditya of Vicram'arca; and that Vicramamitra was intended for Vicrama'ditya, by the compilers of the Puran'as, admits of no doubt, for they
say, that his father was Ghosha-raja, who was the same with Gandharupa, as we have seen before.

Sections on Futufity.

SALIVARANA is confidered under three different points of view, according to the Error different objects and purposes of his mission; and accordingly he is said to be either an incarnation of BRAHMA, of SIVA, or of VISHNU. He is sometimes considered as conjointly possessing these three powers, and he is then said to be TRI-VICRAMA.

WHEN the object of his mission is declared to be to destroy the king-dom, and power, of the *Daityas* or demons, he is then said to be an incarnation of Siva; as in the legends of Sama-Sila King of *Pratishtana*:

In consequence of this destruction, a regeneration takes place, as attested in the legends of the good Mandavyen called Sulastha, or he who was crucified. Salivahana is then said to be an incarnation of Brahma: and this is the general opinion of the inhabitants of the Dekhin, according to A. ROGER, and others.

But, when considered independently of these two energies, meek and benevolent, doing good to all mankind, he is then VISHNU, and this is the opinion of the SALIVANSAS in the provinces of Benares and Oude.

Thus we see, that 'Salivahana goes through the TRIMURTTI; and when these three energies are considered as united in him, he is then VI-SAMA-SILA-TRI-VICRAMA King of Pratish'tána, called also Saileyad'hara, or simply 'Saileyam, in a derivative form.

-PRATIBETA'NA is thenfual Senserit expression for any consecrated place or spot, and it implies here, the holy and consecrated city, and is synonymous with the Bet-al-Kaddes, and Bet-al-Mokaddes of the Muslemans.

SAILEYA-D'HARA another name for it, is mentioned in the beginning of the Jyotirvidábharana an astronomical freatise, in which the author, giving an account of the six 'Sacas, say Mat 'Salivahana would appear at 'Saileya-d'hárá, or the city sirmly seated upon a rock, which compound alludes to the city of Sion, whose soundations are upon the holy hills, "the city of our God, even upon his holy hill." 'Saileyam would be a very appropriate name, for it is also, in a derivative form from 'Saila, and is really the same with 'Saileya-dhará: and the whole is not improbably borrowed from the Arabic Dár-al-Sálam, or Dar-es-Sálem, the house of peace, and the name of the colessial Jerusalem, in allusion to the Hebrew name of the terrestrial one. The Sanser it names of this city of the King of Saileyam, or Sálem imply its being a most holy place; and consecrated apart, and that it is firmly seated upon a stony hill.

I MENTIONER, in the preceding essay, that 'Salivahana was also called Samudra-Pa'la, that is to say, fostered by, or the son of, the ocean. This implies, that either he; or his disciples, came by sea; and this notion has a strong relemblance with a passage from the second book of Esdras, in which Christ is represented, as ascending from the sea, firmly seated upon a rock. This christian romance is of great antiquity, for it is mentioned by Ireneus, Clemens of Alexin Iria and Tertullian, who considered it as a book of some antiquity, and almost canonical.

ALL these sacred, and most expressive epithets, the Hindus have applied to an ancient city in India now called Pattana on the banks of the

Godávori: but with what propriety, will appear hereafter. Be, this as it may, whether in India or out of it, there, at Saileyam, SALIVA HANA was to be born, of gin one year and half old: his father was to be the great Tacihara or carpenter, and himself was to live in the humble cottage of a potemaker. This 'legend is somewhat differently told by others, as we have feen in our account of VICRAMA DITYA. His mother was a married woman; but her husband, a Brahmen, died, whilst the was still very young. She conceived by the great Taoshaca, carpenter or artis, and when her pregnancy became obvious, her two brothers, ashamed of her seemingly unwarmptable behaviour, left Pratish tana, and the unfortunate young woman, thus unprotected, found an afylum in the humble cottage of a pot-maker: and, in the VICRA-MA-CHARITEA, the is faid to be his daughter; whilst according to another legend, SIVA was incarnated in the womb of the wife of King SURA-MAHENDRA DITYA-BHU'-PATI, and there was born, under the Ename of SAMA-SILA-TRI-VICRAMA, or with the triple energy.

It is declared in the Vicrama-charitra, that the birth of this divine child, from a virgin, had been foretold one thousand years before it happened, may some say two thousand. That a Saviour was expected with a regeneration of the universe, all over the more civilised parts of the world, in consequence of certain old prophecies, cannot be denied, at least in my humble opinion. It was firmly believed in the west: it was so in the east; and in the intermediate countries among the Hebrews, it was a fundamental tenet of their religion. Whether this notion was borrowed from the Jews or not, is immaterial to the present subject. It is by no means necessary to have recourse, to

this expedient, in order to account for this once prevailing opinion, and it am rather inclined to think, that this was not the cale,

THE time of his birth is thus afcertained from the Cumarica-c'han-'da, a section of the Scanda-pura na, in which we read, Tatah triche sahasreshu saté chápyadhicéshu cha: 'SACA námá bhavishyas'cha yótidiridra háraca. "When three thousand, and one hundred years of the. Cali-yuga-are elapled, then SACA will appear and remove wretchedness and misery from the world." But it is necessary to observe here. that this is the first year of his roign, and that it has nothing to do with the first of his era. In the fame manner, the author of that setti-. on lays, that the first year of Vickama DITYA's reign answered to the 2021 of the Cali-yuga, which date is equally unconnected with the first year of his era. In the appendix to the Agni-puran's, we thind that 'SALIVA'HANA began his reign 312 years after the death. of CHANAGYA, and CHANDRAGUPTA, which places it also in the first year of our era. It is remarkable however, that in the appendix to the Agni purana, and the copy from it in the Ayin-Acheri, the years are computed, or reckoned, from the first of 'Sa'LIVA'HANA's reign, answering to the first of Christ, but not from the first of the former's . CTR.

'SALIVAHANA died in the year of our era 79, and he lived eightyfour years. According to the Vicrama-Charitra, he was in the
fifth year of his age, when he manifested himself to the world, and de-

[.] Paragraph 42.

feated Vicrama'ditya. This places his manifestation in the first of the Christian Era, when Christ was also in his fifth year and in the latter end of it, sometwas really born four years before the beginning of our era.

This places, also, the accomplishment of the old prophecies, Vicerama'ditya's inquiries after this divine child, born of a virgin, exactly in the first year of our era. For, a thousand years before that event, the goddess Cals had foretold him, that he would reign, or rather his posterity, according to several learned commentators in the Dikhin; as mentioned by Major Mackenzie, till a divine child, born of a virgin, should put an end, both to his life and kingdom, or to his dynasty, nearly in the words of Jacob* foretelling to Judah, that the sceptre should not depart from him, or his Dynasty, until Shilohi came, Sa'liva'hana or King Sa'la.

As to his character, it is declared in the Cumáricá)c'han'da, as we have seen before, that he would come for the purpose of removing, wretchedness, and misery, from the world.

In the appendix to the Agni-pura'na, it is declared, that in the holy and confecrated city of Pratish'tana, firmly feated upon a rock, called. Saileya-d'hard or Saileyam, through the mercy of Siva, would appear $S_{\Lambda'LIVA'HANA}$, great and mighty, the spirit of righteousness and justice, whose words would be truth itself, free from spite and envy, and whose empire would extend all over the world (or in other words, that the

[•] Genesis, chap. 49. v. 10.

people would be gathered unto him) the conveyor of fouls to places of eternal blifs. On account of this benevolent disposition, he is compared in the Vansavali, to Dhananjaya or Arjjuna, whose character is so well delineated in the inscription on a pillar at Buddal. He did not exult over the ignorant and ill favoured: he neither vainly accepted adulation, nor uttered honey words, and was the wonder of all good men. His wonderful equationity on all occasions, and with regard to every one, of whatever rank in life, and whatever might be their natural faculties, and mental dispositions, are implied by the epithet of Vi-Sama-Sila bestowed upon him.

His conception was miraculous, and in the womb of a virgin: he was the fon of the great artist, and the virtue of his mother was at first suspected: but choirs of angels came down to worship her. His birth was equally wonderful: choirs of angels with the celestial minimistrelly attended on the occasion, showers of slowers fell from on high. The King of the country, hearing of these prodigies, was alarmed and sought in vain to destroy him. He is made absolute master of the three worlds, heaven, earth and hell: good and bad spirits acknowledged him for their lord and master. He used to play with snakes, and tread upon the adder, without receiving the least injury from them: he soon surpassed his teachers; and, when sive years of age, he should before a most respectable assembly of the doctors of the land, and explained several difficult cases, to their admiration, and utmost astonishment; and his words were like ambrosia.

In the copies of the Vansavali, current through the western-parts of India, he is conflahtly called SAMUDRA-PA'LA; because either he, or some of his disciples, came by sea; and he is of course the same with the Mléchhávatara, or incarnation of the deity among foreign tribes, mentioned in several astronomical tracts; and he is mentioned, in that character, in the section erroneously attributed to the Bhavishya. There he is declared to be RUMADE'S'A'DHIPATI-SACE'S WARA, the lord and master of the empire of Rome; and the author of the sacred period current through that vast empire; and which, according to the appendix to the Agni-purana, began to prevail over that of Vicrama DITYA in the year 676 of our era. We have seen before, that he was born for the purpose of removing misery from the world, and to check the power of the demons; and, at the earnest intreaties of the subaltern deities on earth, and all good men, who were groaning under their tyranny, Siva comforted them, and assured them, that after a certain time, he would be incarnated in the character of VI-SAMA-SILA, with the title of TRÍ-VICRAMA, or with the triple energy.

The occasion of his being born, is declared also in the Vrihat-cat'há. The gods, being vexed by the wicked, went to Maha'-de'va, and said, "you and Vishnu, have destroyed the Asuras or Demons, but they are born again as Mlech'has, who constantly vex us and the Bráhmens. They will not allow facrifices to be performed, but destroy the implements and holy utensils: they even carry away the daughters of the Munis." Maha'-de'va promised relief, and caused one of his forms, or emanations, called Ma'lyava'na, to be incarnated, saying to him, "go and destroy the wicked; all the world will submit to thy power, as

well, as good and wicked spirits." Then MAHA'DE'VA appeared to the father, informing him, that his wife would conceive, and the fruit of her womb be an incarnation of the deity: and he directed that his name should be Vicrama. When his mother had conceived, she became resplendent like the morning sun; and this resplendence answers to the Núr of the Muslemans, from which Issa proceeded. Immediately all the heavenly spirits came down to bow to her, and and worship her. When the child was born, the celestial music was heard, and a shower of slowers took place. The high priest, who was childless, obtained also a son, as well as the prime minister.

In the legends relating to SA'LIVA'HANA, it is in general afferted, that his mother being found with child, her character suffered so much, that her two brothers, through shame, lest their native country.

In the present legend, 'SA'LIVA'HANA, under the name of V1-SA-MA-'SILA with the triple energy, is represented as the son of a King, and as residing at *Pratisht'ana*, the consecrated city, or 'Saileyam. We are then informed, that young V1-SAMA-'SILA made a surprising progress in learning, and soon surpassed his teachers. His father then resigned the kingdom to him, and SAMA-SILA became king of heaven, earth and hell; all spirits, good and bad, obeyed his orders; his resplendence was like that of the sun, and his same reached the White Island in the White Sea. The scene is then transferred to Ujjain, where he appears like VICRAMA'DITYA: then follows a minute account of his wars; but even then, there is no mention made of his wars with

SA'LIVA'HANA, for a very obvious reason, though in the latter, part the story is somewhat misrepresented.

LET us now consider SAMA-SILA or SA'LA-VA'HANA, an incarnation of the great Tacshaca, in the humble cottage of a pot-maker in the skirts of Saileyam, or the consecrated city, as related above.

Though without teachers in that humble station, he surpassed all the learned in knowledge and wisdom; and I have already mentioned the famous will, which puzzled all the princes and learned men of the country, till a solution of the mystery was given by 'Sa'LIVA'HANA, who was then in the fifth year of his age.†

THERE is a curious account of 'Sa'LIVA'HANA, and of his crucifixion, in the Raja Tarangin'i, or history of Casmir. There we read, that 145 years after the accession of Vicrama' ditya to the throne, there appeared King 'Arya, who was before prime minister of King Jaya-Indra, and whose name signifies the lord of victory, or of victorious hosts. It was decreed, that he should be wretched, and persecuted all his life time, and ultimately that he should die upon a cross; that he would be brought to life again, through the assistance of a Phan'i-Canya, or damsel of the Serpentine tribe; and then would become a great and powerful monarch. The King, having been circumvented by his enemies, threw into a loathsome dungeon Sandhi-Mati, for such was the name of his prime minister. But his enemies were not satisfied, and

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As. Res. vol. ix. p. 128.

they informed the King, that Sarasvati, divine wisdom, or collectively those endued with divine knowledge, had declared, that he would be a King, JAYA-INDRA, called CHANBRA in the Ayin-Actori, ordered him immediately to be prucified. There he remained, till his flesh dropped off, or was torn off by wild beafts. A certain holy man happened to pass by, and reading his destiny in the Brahman'da, or in his seull, immediately resolved to bring him to life again. For this purpose ha performed the pujá, and after the usual ceremonies and invocations, he rung the bell, and was furrounded by a fiery meteor, which announced the presence of the Yogints, or forms of Dz'vi. Then, arming himself with a scimitar, as usual on such appearances, he went to the forest, where the prime minister hung upon the cross. He was immediately surrounded by Yoginis, one of whom, the Phant-canya I mentioned before, arranged the bones together, and SANDHI-MATI stood upon his legs. The King, hearing of this, went to the forest, when all the Yoginis disappeared; this resurrection of SANDHI-MATI. took place in Muni-puri, or the city of holy contemplators. He then ascended the throne, and, on account of his transcendent virtues, was called 'ARYYA-RA'JA, or the good King.

The author gives us then an account of his excellencies, and of his worth; and informs us that he was a fervant and favourite of MAHA'-BE'VA. The ways of the supreme being, says he, are wonderful, and truly pass all understanding and belief; yet there are similar instances recorded of old, such as in the case of Farieshita &c.* The differ-

^{*} See Raja Tarangini, and the extract from it in the Ajin Acheri, history of the Kings of Cashmir.

ence, between the two eras of Vicrama'DITYA and 'Sa'Liva'HANA, isomade here to be 145 years, according to the computation used all over the Dekhin: for in the northern parts of India, they reckon only 135.

KING 'ARYYA is the same with the PRA-'ARYYA-S'IRA of the sollowers of GAUTAMA in Siam, and other countries to the eastward of it. This signifies the mighty and venerable Sire, or chief of the 'ARY-YAS or Christians: and with him BUDD'HA waged war, as well as with his disciple PRA-SWANA, thus called because he loudly preached against the doctrine of BUDD'HA. The 'ARYYA-RA'JA is also the same with DE'VA-TWASH'TA' or DE'VA-TA'T, who was crucified by order of. BUDD'HA. King 'ARYYA was succeeded in the throne by Gópa'DI-TYA, the grandson of King YUDHISHTHIRA, the immediate predecessor of PRETA'PA'DITYA, who brought VICRAMA'DITYA, from distant regions to Cas'mir, and made him King of that country. PRETA'PA'-DITYA, and VICRAMA'DITYA are epithets synonymous, or very nearly so.

MANY learned Hindus, for feveral centuries past, conceive that the eldest Vicrama'ditya was far from being contemporary with 'Sa'liva'hana; and of course conclude, that he is not the samous 'Sacadwi siii or 'Saca'ri, that is to say the enemy of 'Sa'liva'hana; and consequently they suppose, that 'Saca'ri must have been the epithet of some more modern Vicrama'ditya. This notion is countenanced certainly in several of the lists, which I have produced; and the author of the Rija-Tarangin'i acknowledges, that it was the opinion of many; and though he does not countenance it, shews plainly, that in his time it.

was by no means a new idea.* The compiler of the Vansavali seems willing to adopt it, when he says that many learned men reject the whole, as altogether sabulous, and unwarrantable. Their reason, I am told, is that 'SACA is the MLE'CH'HA'VATA'RA, who did not appear, or rather whose period was not known in Indea, till about 1200 years ago. In conformity to this idea, in the section attributed to the Bhavishya-Purán'a, 'SACA is declared to be the lord and master of Rome, which is to be taken in a spiritual sense: and in the Agni-purán'a, the introduction of his period into India is made to correspond. with the year 676 of GHRISTE

This Michhavatara, or incarnation of the deity among foreign tribes, is peculiarly noticed in the Rómaca-Siddhanta, an aftronomical treatife, according to the fystem of the Rómacas, or Romans, called Romaicoi (Papana) by the Greeks. This treatife is said to be very voluminous, and is so scarce, that I have not been able to procure it; and. I believe it is not to be found at Benares. This deficiency I have been able to supply from the Súryarun'a-samváda, the Sidd'hánta-Rája, and the Súrya-Sidd'hánta. The sun, having been appointed by Brahmá, to be the eye witness of all transactions in this world, and to regulate the hours and time, resuled to obey, and with frew into the desert, to perform tapasya, in order to be reunited to the Supreme Being. In confequence of this resulal, he was cursed by Puru'hu'ta, or Indra, and. Viranchi, or Brahma. In the Súrya-Siddhanta, it is said, that

^{*} SACA'RI Vicramá-litya ki sabhramamás'ritaih, anyair atrányathá lec'hivis'amvádi cadás-thitam:

MAYA, the chief engineer of the Daityas, and the son of Twashta; made tapasya in honor of the sun, in order to obtain-astronomical knowledge; the sun appeared to him, and said "I know the restitude of thy heart, and I am much pleased with thy tapasya. I shall therefore impart unto thee the doctrine of Time, and of the revolutions of the planets. But as no body can bear my resultance, and as it is not in my power to stop my course, for a single moment (for this reason go back to thy own puri, town, or place of abode, and there I shall impart unto thee knowledge, in the town of Rómaca, where I shall become the MLE'CH'HA'VATA'RA, through the curse of BRAHMA'.) This form of mine, here present, will teach thee every thing": then the sun, having directed this new form to teach him, disappeared, and MAYA bowed himself to the ground before this emanation.

The sloca between the two brackets is not found in general in the copies of the Sürya-siddhánta; yet without it there feems to be something wanting: but whether an interpolation or not, its purport is established in the following astronomical treatises. In the beginning of the Sidd'hanta-Rája, the author says, from history (Itihása) I know, that Bha'scara-Su'rya became a Rómaca, through the curse of Puru'hu'ta and Viranchi. He became a Yavana in Rómaca-pattana, and in the garb and countenance of a Rómaca, he composed a most complete treatise on astronomy.

In the beginning of the Súryárun'a-samváda, the sun is introduced, saying, "I gave the Rómaca Sidd'hanta to Rómaca, whilst living among the Yavanas, in consequence of Brahma"s curse. Rómaca taught it

Monasu magaré in the town of Rome, for he dwelt among the Mléch'has in consequence of that curse; Rómaca-furí is the town of Rome in the west. "Then," says Arun'a, "how came you to assume the countenance of a M'éch'ha, in the west, in a land of unrighteousness." "Brahma' cursed me," answered the sun, "and said be thou born in the west, in Rómaca-pura, and of the Mléch'has, who are ignorant of the Védas, of the Yasna or of the proper mode of performing sacrifices, Carma, religious rites and discipline; who have rejected sarvadharma, all religious duties, are dush'ta, inclined to evil, nastica, heretics; and who (the Romans) are a Yavana tribe, guilty of every fort of uncleanliness. Thus, in that thave, I taught them astronomy,"

This Merchina at A'ra tare, or superior inearnations of the deity among foreign tripes, Ruma-de's'a-part the lord of the country or empire of Roum, or Rime, (because his dollvine; institutes, and laws prevail through it;) Rómand nagard, said to raside in Rome its metropolis, (because he is revered and worshipped there with unusual mignificence;) Saces ward the lord of a sacred period, (or as I think it should be understood, after whom it is denominated,) is obviously, Jesus Christ; at least it appears so to me. From his being a Saces ward, the Hindus suppose him also to be a great efficiency. In the Súrya-Sidlhánta, he is repeatedly called Sri-Su-Rya'nsa, or the blessed Su'rya'nsa; he is also styled Rómaca Ava-Ta'ra, or simply Rómaca. In consequence of this, Sa'luna'hana

Inferior incomațions are denominated Avantara.

Spaniards, might be ascribed to Munamed, and St. Jaco the charapion of Spain, who led constantly her armies, and destroyed-very many
Moors: hence he is called St. Jaco Mana Monos. Droportus the
Sicilian says the same of Alexander the son of Jupiter; and,
though dead, he was supposed to be at the head of the armies, and to
regulate the conduct of their chiefs, and thus every victory was ascribed to him.

In many parts of the *Peninsula*, Christians are called, and confidered, as followers of Budd'ha; and their divine legislator, whom they confound with the apostle of *India*, is declared to be afform of Budd'ha, both by the followers of Brahma', and those of Jina: End the insur-mation I had received on that subject, is confirmed by F. Paulino.

Some legendary tales, obviously relating to the death of our Saviour, have found also their way into the Peninsula. There is a certain Peishé cára Bráhmen (for thus the Christians were called, and Christians in the Apocryphal Gospels, and by the Manicheans was confidered as a Peishé-cár Bráhmen; an artist, manusasturer, or carpenter,) who came to a certain place, and there loudly proclaimed, that all perfons in distress should come to him; and that he would take them under his protection, and even lay down his life for them. He was then sitting like a Muni, or contemplator; and many came to him: among them was a thief, who had robbed the King's palace to a considerable amount. The officers of justice soon arrived in pursuit of him;

[•] Diod. Sic. p. 660 and 678.

[†] Systema Benhmanicum, p. 1624

but the holy man would not deliver him up, faying, that he was ready to die in his place; and in that of all those, who claimed his protection. The King ordered, that the holy man should suffer immediate death, upon a Sula or Sull, which means a stake, either one for empaling, or a gibbet, or cross. Crucifizion being unknown to the Hindus, they of course, have no name for it; and Sula or Sull, originally a stake, signifies also a gibbet, or the cross, exactly like Stauros in Greek. It is so even in the Persian language; and so it was among the Ramans, according to Senech; a crucificion signified both empaling and extending the arms upon a cross bar; for these two modes of punishment were crually in us; among them; a gircumstance very little known.

THEN the holy man was stretched upon the Sula, amidst the lamentations of the surrounding multitude, to whom he observed, that he came for that purpose, (to atone with his life for the sins of others.)—The Sula was suddenly changed into a Sála, or tree loaded with slowers; a pushpa-varsha took place, as usual on such occasions; that is to say, it rained slowers from on high; a celestial car, with divine choristers, came down to translate into heaven the holy man, who, taking the thief by the hand, said, "thou shalt also be with me in Cailasa or paradise." Thus they went to Cailasa in the presence of an immense croud, who with uplisted hands, loud huzzas, and tears of joy, testified their satisfaction, at the sudden change. The Musulmans, and the Manicheans, with many other sectories, will not allow that Christ was really crucisied. Some say, that it was a mere illusion; others allege,

^{*} SENECA de Confol. ad Marcium, p. c. 20.

that he disappeared, and went to heaven. The Manicheans, who spread their errors at a very early period, not only in the northern parts of India, but also in the Peninsula, always represented Christ crucified upon a tree, among its soliage and slowers. Though this legend is not applied to 'Sa'li-va'han, or 'Sa'la-va'han, as it is pronounced in the Dehhin; yet, when the good Peshe-car Brahmen was stretched upon the 'Sula or 'Suli, he was really 'Suli-vahana, or cross-borne: and when the 'Sula was changed into a 'Sala or tree, he was certainly 'Sala-vahan, or 'Sali-vahan, he who was exalted, or borne upon the tree. Though the punishment of the cross be unknown to the Hindus, yet the followers of Budd'ha have some knowledge of it, when they represent De'va-Tat, crucified by order of Budd'ha upon an instrument somewhat resembling a cross, according to the account of several travellers to Siam, and other countries,

We read in Sanscrit lexicons, that 'Sa'Liva'han was also called Ha'LA a plough; it should be Ha'La-va'hana, or in composition, Ha'LiVa'hana; he who was borne, or crucified upon a plough. The old
Indian plough had originally the shape of the letter Y, like the old
Latian Furca, or bisurcated stump of a tree. To one branch, the ploughshare was fixed; and the other branch served as a handle. 'In the statues of Vishnu, and Bala-ra'ma, the plough in their hands is represented nearly in that manner; and, from that circumstance, BalaRa'ma is called also Ha'la, and Ha'li, or he with the plough.

THE legend of the good Peishe car Brahmen, is found in Major MACKENZIE's historical sketches of the ancient Kings of Warangola,

etherwise, I should not have presumed to insert it here. It is interwoven with the history of the first Kings of that country, and of course the compilers by no means entertained an idea, that it was anterior to the Christian Era.

As I was mentioning this traditionary legend to some learned Pandits, they informed me, that the same, or one at least very much like it, was to be found in the Mahá-Bhárata, the Sahyadri-c'hand'a a section of the Scanda-puran'a, and in the Bhagavata also. I produced the books, and they pointed out the respective pages immediately. I read the whole, and found it illustrated with circumstances, of a most extraordinary nature!

In the Bhagavata, and its commentary, this legend is only alluded to. In the Maha-Bharata there is a short account of the transaction; but in the Sahyadri-c'hand'a, the legend is drawn to a very great length, and the principal features, and circumstances in these legends, which in reality are but one, are the following.

THERE appeared, in the Dithin, a most holy Brahmen, of those called Peishe-caras, Tachacus, Sithicas or handicraftmen, and whose name was Mand'Avyan. He proclaimed, that he came for the sole purpose of relieving the distressed; and that whatever men claimed his protection, he would readily grant it to them, and even lay down his own life for them. Very many of all descriptions came accordingly;

[&]quot; Thigavate's Section s. p. 13. Wink Hairary Section r.

and among them a thief, who being pursued by the officers of justice, chaimed his protection, which he readily granted, and was mally gru, cifled in his room. He then ascended into heaven, and took the thief along with him?

This circumstance is otherwise related in the above Puránas. A numerous banditti had taken shelter near the holy man, thinking themselves safe; but the officers of justice arriving, they were seized, and immediately crucissed. The holy man was supposed to be a thief, numbered among them, and crucissed also. He did not open his mouth, but remained absorbed in holy contemplation, inwardly repeating sacred names, with his arms extended, and uplisted.

Whilst on the cross, all the Rishis crowded from all parts of the world, in the shape of birds, to see him, and comfort him. A certain thief, who was also covered with leprosy, and, in consequence of it, deprived of the use of his himbs, was accidentally dropped at the foot of the cross, wrapped up like a child in his swaddling clothes. The man, after remaining there some time, was perfectly cured; and, being irradiated, repented, lived to a good old age, and obtained eternal bliss. A thick darkness overspread the face of the world; and the animated creation was in the utimost distress, and consternation. The holy man, being afterwards taken down from the cross, descended into hell, and there encountered, and overcame, death, or YAMA. Then a general renovation of the world took place, under the inspection of BRAHMA'. The holy man, from his having been crucified, was ever since called Sulastha, or the cross-borne, which is synopymous with

SA'LIVA'HANA. If we prefix, to this abstract, the legends concerning the infancy of 'SA'LIVA'HANA, and the era of his manifestation, we shall have the principal circumstances of the life of our Saviour, either from the true Gospels, or from the Apocryphal ones."

THERE are two singular circumstances in these legends: the first is that it was decreed, that the iron should pierce the body of Mand'avah, as well as that of Cayshna, because both were accursed, though guiltless. The second is that neither Cayshna nor Mand'avah died, the first in consequence of his wound, nor the second after being crucified: and both are represented as contemporaries.

THE Caristian sectaries in the first ages, and MUHAMED himself with the Muslemens to this day, highly reprobated the idea of Christ dying upon the cross, and even sonsidered it almost a blashemy. Crishna, though suittless, was involved in the general curse denounced against his whole tribe, by which all the Yadus were doomed to be pierced with the iron, and to die. Neither Crishna, nor Mand'avyah could die; but they were to be brought, as near as possible, to the point of death, that the words of the Muns should not be done away. Besides, Yama, as King of death, has a claim upon every individual, and with regard to some excited characters, he must be setisfied, and a compromise must take place. But another difficulty arises; Yama cannot condemn a man to die, without some reason; it would be unjust in him, who is also King of justice. All incarnations of the deity, however dignified, and exalted, such as that of Crishna, which is considered as the first in rank, and the most perfect of all; all manifestations of

firmities, and even the weakness of human nature, being certainly infirmities, and even the weakness of human nature, being certainly involved, in some measure, in the gloom of mays, or worldly illasson. In this case, Yann is always sure to find some taint of negative guilt, in consequence of which, he can, at least, bring them to death's door: and it was found that Mann'avya, in his infancy, had destroyed a feeble and innocent insect, by piercing him, either with a needle, or with a blade of grass. This fatal needle was the only thing, that Christ ever possessed in this world; yet, however insignificant in itfels, it was certainly a wordly implement, and it prevented his admission into heaven, according to Muslemans in India; neither will he ever be admitted; till after his second manifestation, at the end of the world. Others say, that he was admitted into the fourth only, instead of the highest heaven, on that account.

We read in the Mahá-Bharata, that there was a most holy and pious Bráhmen called Mand'avya, who was making tapasya with his arms uplisted, absorbed in holy contemplation. Some lóptras, lifters or thieves, placed themselves near him, with their stolen goods, thinking to be safe; but the King of that place, who was in pursuit of them, ordered them to be crucified, and as the holy man gave no answer, he was numbered among them, and crucified with the rest. In the night time, all the Rishis, hearing of his missfortune, slocked from all quarters, in the shape of birds, to comfort him. In the mean time the thieves died on the cross; but the holy man remained meditating, without uttering a word, with his arms uplisted. The King, hearing this; immediately saw that Mand'avyah was a Rishi, and hastened to take

his forgiveness. Immediately the Rishi descended into hell, and asked the King of death, and of justice, how he could allow him to be crucified, as he was guiltless. YAMA answered, that in his infancy he had pierced an innocent insect with a blade of grass. The Rishi said, that at that age, he could not incur guilt of any kind, and of course drove him out of the infernal kingdom; and willed, that he should be born of the womb of a woman of the Sudra tribe. This was effected in the house of Vichitranvinya, who was dead; but Dwaipa'y-ANA or Vya'sa, rassed seed to him, through his wife, and a handmaid. YAMT. was born of the latter under the name of Vidu'ra, and remained on earth 100 years, during which the government of the infernal regions was committed to Aryama', according to the Bhágavata. In the Sahykdri-c'handa, we have a most prolix account of this momentous event, which I shall give in abstract.

"Whatever man listens, with due attention, to this legend, his sins shall be remitted. In the forest of Dandaca, in the Sahyadri mountains in the Dahim, on the banks of the river Pranita, was the hermitage of Mandava, a most holy Rishi, most benevolent, and no accepter of persons. There he remained; between five fixes, entirely taken up with holy contemplation, and inwardly, repeating sacred names. A numerous banditti, with the goods they had stolen, being pursued by the King, at the head of a strong party, took shelter near the holyman. As soon as the King came, he ordered them all to be crucified immediately; and the holy man was numbered among them; and

from his being crucified, he was, from that sime, surnamed Sulastha, or the cross-borne.

"THERE lived in the adjacent village a most virtuous, and saithful wise, who was married to a thief, and a debauchee, whose whose body was covered with leprosy: some of his limbs had dropped, and others were deprived of motion. He was very fond of gambling, and his saithful wise used to carry him, wrapped up like a child in swaddling clothes, to a gambling house, where he speat a great part of the night, when she carried him back in the same manner. It, was midnight, and the night very dark, she passed near the cross, and stumbling against it. she shook it violently, and let her husband fall at the foot of v. The holy man being put to great pain, said to her, at the rising of the sun thy husband shall die. Such are the powers of a virtuous and saithful wise, that she forbade the sun to rise. A thick darkness overed the face of the world, and lasted 10,000 years, during which the gods and the created beings, were in the utmost distress and consternation.

'ALL the gods, with 'SIVA and BRAHMA', went to VISHNU the preferver, who resides on the northern shores of the White Sea, that is to say, in the sacred isses in the west. VISHNU was very much embarrassed, as he did not wish to reverse the decrees of either of two such exalted characters. After some consideration, he said to the gods, "Anasu'ra' the wise of Atri is most virtuous, and faithful; go to her, and prevail upon her to go, and speak to the wise of the thies; when they will together come to some arrangement." Anasu'ra' consented, and after having discussed the matter with her, every thing was settled.

In her character of a vistuous and faithful wife, she ordered, that the husband should live; and Gun'AvATi, the thief's wife, ordered the fun to rife. Still it was necessary to satisfy the holy MAND'AVYAH, whose words could not be done away. They agreed, that in future, all married women, when it is dark, or night, should remain as in a state of widowhood, taking off their nuptial drefs, and ornaments. The benevolent Mand'avyan was easily pacified, the sun rose as usual, darknels was dispelled; the holy man, who had remained all the while abforbed in contemplation, with his arms uplifted, descended from the cross; the leper, at the foot of it, was cured of his disease, lived to a good ald age, and obtained eternal blifs; and the two virtuous and. faithful wives were crowned with honor and glory. The air was filled with numberless choirs of celestial minstrels, singing heavenly strains, and the whole executed with a shower of flowers from on high. In the mean time, the animated beings had all perished; and BRAHMA' was directed to proceed immediately to a new creation, and a general renovation of the world took place.

II. CHRISTIANITY, certainly, had made a great progress in the Peninsula, even at a very early period. The venerable Pantanus of
Alexandria visited India, about the year 189; and there found Christians, who had a copy of the Gospel of St. Matthew in Hebrew, which
he carried to Alexandria, where it existed in the time of Jerome.
Frumentius, the Apostle of Abyssinia, who had resided a long time
in India, and spoke the language remarkably well, preached the Gospel in the southern parts, where he had great insuence, and was highly

respected, having been for many years prime minister, and regent of one of the Kings, during his minority. There he converted very mamy Hmdus, and built many churches, and then went to Abyssinia. He came to India with his brother Apestus, along with their paternal uncle, a native of Tyre, who was a Christian, and a very learned man. He travelled into the interior parts of India, as a philosopher; and having fatisfied his curiofity, he re-embarked, on his way back, with his two nephews; but, happening to put into a certain harbour, in order to get a supply of water, they were, at their landing, suddenly attack. ed by the natives. Many perished, and the rest-were carried into cap-.tivity. Among the former was the uncle; but his two nephews were. presented to the King, who took particular notice of them, and they were afterward raifed by him to the first dignities of the state. They. obtained leave to revisit their native country, when ERUMENTIUS was. ordained a bishop, and in that character went back to India. At the council of Nice, in the year 325, the Primate of India was present; and subscribed his name. In the year following, FRUMENTIUS was. confecrated Primate of India, by ATHANASIUS, at Alexandria. He refided in the Peninsula, and the Christians there had always a bishop,. called the Primate of India. The Christian religion made also someprogress, in the north of India. Musgus bishop of Aduli; on the Abyssinian shores, visited the northern parts of India, in the latter end of the fourth century, in company with the famous PALLADIUS, a. Goth from Galatia. When they arrived on the borders of India, they were both disgusted with the climate. Palladius went back, but-Mus.zus proceeded to the leffer Bochara; where, it seems, he was... more successful. Yet there was, at Sirhind or Serieda, a seminary for Christians, in the fixth century: for, in the year 636, two Monks, who had long resided there, returned to their native country; and being at Constantinople, the Emperor Justinian sent for them, to inquire into the nature, and origin of silk, and he prevailed upon them to go back to Sirhind, in order to bring from thence the aggs of the real silk buttersly.

THEOPHILUS, the famous Arian bishop, was a native of Divus. now. Diu in Gujrat; and, as he was remarkably black, he was sumamed the Blackamook . His Hinds name was probably DEO PA'L, perfectly synonymous with Theoretius in Greek. He flourished in the times of the great Constantine, and of his fons: and he had been fent to Constantinople with others as hollages. From this circumstance it appears, that the innabitants of Gujrat, who have been always famous as pirates, had ill used the Roman traders. There was a great trade carried on, at that time, to India, by the Romans; and there was an annual fair held at Batné, for the vent of Indian and Chinese commodities, and there was a great concourse of merchants, many of whom were settled there. It was situated at some distance from the eastern bank of the Euphrates, and nearly in the same latitude with Antioch. He was very young, when he was fent to Constantinople, where he studied, became. a Christian and embraced a monastic life. He was afterwards ordaned. a bishop, and sent to Arabia by Constantius, in order to promote the interests of the Christian religion. He met with great opposition

^{*} See Philistorgius, Sozomenes &c.

from the Jame, who were very numerous in that country: but lugceeded at last, and built three churches, for the benefit chiefly of the
Roman traders. One was at Taphar or Tapharon, now Dafar, and the
metropolis of that country: the second was at Aden near the straits of
Babelmandel, and the third near the entrance of the Persian Gulf.
From thence he went by sea to Diu, his native country, visited several
parts of India, comforting the Christians, introducing wholesome regulations, and spreading the errors of Arius. He thence returned to
Antioch, according to Suidas, where he lived a long time highly
respected. He accompanied afterwards Constantius Gallus into
Germany, as sar as Petavium, now Pettaw in Stiria, in the year 354.

MARUTHA, a Hindu and a billion of Suphara, now Sufferdam, affisted at the Synod of Sides in Pamphylia, in the year 383. He was afterward translated to the bishoprick of Meyaferkin, on the borders of
Mesopotamia, when Yezdejird I, King of Persia, charmed with his
piety, was very near becoming a Christian; and Chrysostom speaks
highly in favour of our bishop. According to the Notitia of Nilus
Doxopatrius, the Greek Patriarch of Antioch ordained a certain Ramogyris Metropolitan of India: and, from his name, there is every
reason to believe, that he was also a native of India, where the appellation of Rama-Gir is by no means uncommon. Cosmas Indicoplifustes, who visited India about the year 522, says, that there were
churches, and priests, with the whole liturgy, in Ceylon: also on the

Photii Biblioth. p. 38 &c.

Malabar Coast, and in the north well of India. In shape countries, lays he, there are a valt number of churches:

THE Million of St. THOMAS to Maia, with the furthing progress of the Christian religion, are facts, miliny humble opigion, Tuitleiestly authenticated. JEROME, who died in the year 425, speaks of the Mill fi n of St. Thomas to India, as a fact universally acknowledged in his time: but I mult refer the leeptic reader to the works of Faraterus; and Assemann; unformittely not to be procured in this country; But the learned hillory of the Anglo Saxons by Mr. Tunner will abutil dantly make tip for this deficiency, in this differtation on the embally of the billion of Shireburn, fent by the great Alfred, to the tomb of St. THOMAS in India. That the holy Apolitic suffered martyrdom in India; is sufficiently proved: but, set the lame time, it is certain also, that his body was afterwards carried back, and deposited at Edessa, as attested by Rursinus, who went to Speci in the year 371, and remained there twenty five years. The place, however, where he was first enu tombed, became a famous place of pilgrimage, where probably, they kept some particles of his body, either true or false: but the chief relic was his blood; which had imprognated the spots where he suffered martyrdom. This earth was carried in finali quantities, all over the Peninsula; and; being drunk with water, proved most efficacious, in all forts of discases; and complaints. His tomb at Edissa was probably destroyed, during the wars of the Emperors of the west with the Persians; or afterwards by the Muslemans.

In the fixth century, GREGORY of Tours, the father of French his-

who had visited the tomb of St. Thomas in India. In the ninth century, Sighten histop of Shirebury was sent there also by Alfred, in consequence of a vow. Now, these two clergymen were too orthodox to worship the tomb and relics of an heretick, a Nestorian of the name of Thomas, as has been supposed by many; and they were too near the time, in which he lived, to have been imposed upon. The two Muslemans, who visited that place soon after Sighten, mention the church of Thomas, on the Coast of Coronandel, as well as Marco Polo about the year 1292, long before the Portugueze had sound their way to India. M. Polo says, that Christians and Muslemans were very numerous in the Peninsula.

The place, where he suffered martyrdom, that is to say, the country about Madrie, was selden risted by merchants, as there was no trade. His body, or tomb at least, was in a small city of that country; and the native Musicians, and Christians, held it is great veneration. Pilgrims, from distant countries, came to visit this holy place; and the earth impregnated with his blood, was given in some beverage, to sick and insirm people; and mitagles; were often performed there. In speaking of Aden in Arabia, he informs us, that "Sr. Thomas was said to have presched there, before he want to Machar in India, where he suffered for Gurast, and there, reposes to this day his most holy body. In that country, Machar, the Christians are good soldiers, and remarkable for their hoppists."

THE inhabitants say, that the holy Apostle was a great prophet, and they call him Avaria, which in their language signifies a hely and

discourself, de garage par en envigiren un the impaning of the world Audriia, it is very easy to restorned design guest and original forms. which is Av-Aryva in-Sanscrit; and, as he says, that the Christians there were highly respected, being good soldiers, and sabove all, good and hely men, remarkable for their integrity, they were certainly Av-Aryyas, or Aryyas, as well as their holy Apostle. The word Avaria is derived from the Sanscrit compound, Av-Aryya, from two words perfeetly fynonymous, Ava, and Aryya. The first is rendered in lexicone, by 'Sudd'ha, or Pavitra, equally implying heliness, and purity, It is often used in composition, where it enhances the sense. One of the titles of Bund'ha is Ava-Lo'cita, or Ava-Lo'ca-na't'n, the holy fovereign of the world: AVA-RO'HA Or A-RO'HA, well fested. This word is very often pronounced Ana, and more particularly to, in the S. W. parts of India; and the same M. Polo mentions in the country of Lae, a race of most pious men called Abraiani and Abraiam in the M.S.S. But the editors thought proper to write that word, Abrajamin; because they conceived that they were Brahmens. But it is much more probable, that it is the fame world with Austrian, or Avatile, which he mentioned before. Ab-Arrys in the objective cale, in the Engular number, spakes Ab. Arryon, and Ad. Arryon in the plural, in the first case. These Abraiani, says he have in abhomence lying. theft, and cheating. They marry but one wife, and abilian from time sputcating liquors, and fielh. They eat moderately, and their falls age long, and most separe: otherwise, says lie, they are idolaters. The them mentions other idelaters in that country; but from the content, entirely different from the Ab-Aryyas: who, it seems, were only degenerated

Christians, who had in great measure relapsed into the errors of their ancestors, and of their contemporaries.

these good people, with the most austere manners, called Aryyas, seem to be the same with the holy and rigid penitents, and anchorets mentioned in the third century by Ptolemy in the country of Ariáca, a derivative form from Aryya, under the name of Tabassi Magi, from the Sanscrit Tapaswi, pronounced Tabasá in the Tamuli Dialest; and which signifies contemplators, and by implication men performing austere penances, like the anchorets in the wilds of Thebes, and Tabanna in Egypt; which denominations are probably derived from Tapa, austerities, and Tapo van, the wilderness of austerities. The Aryyas are mentioned in the Brahmán'dd-purána as a powerful tribe of foreigners (Mléchha) living among the mountains of the Dekhin.

PTOLEMY says, that Ariaca belonged to the Sadinoi, a strange name certainly for a tribe. I suspect however, that it is derived from the Sanscrit Sád'hana, and that the 'Aryyas were thus denominated by the native Hindus, in the same manner, that the Portuguese were styled in Bengal, Thac'hurs, rulers or lords, and the English all over India are called Sáheb-lócas, or Sahéb-lógues, and the most apposite Sanscrit expression for the above epithets is Sádhana: the English are often styled by learned Pandits, Sádhana-Engriz: and the samous Bho'ja is often called Sádhana Bhója. M. Polo mentions also Abraians on the Pearl-

Section of the Earth.

Fishery Coast; these were consulted by the fishermen; but, hersays that they were bad men, and great forcerers; and their descendants, to this day, are not much better. According to the acts of St. Thomas, and other notices, the holy Apostle embarked at Aden in Arabia, in his way to India, where he landed at a place called Halaber, and afterwards Salo-patan, synonymous with Salo-pur, or Sala-buram, Hala-buram; and now Crangamer. He was Well received by Marrays, galled also Segamus, King of that country, whose son Euran he converted, and afterwards ordained him a Descon. The Apostle, long effect, suffered martyrdom, a place called Calamina; known afterward by the name of Maliar-pari, or the city of Peucocks, from the Sanaerit Meyur-pura; and the same which is called Maliar-pha by Property. Its present mame is St. Thomas, the house or church of Taxon 4a.

MASDEUS, the name of the King, who kindly received St. Thomas, Zuzan that of his Ion, and Segamus his own firname, are all Hinds denominations. Masdeus is for Basdeo, the usual pronunciation of Va'su-de'va in the spoken dialects. 'Secamus' is for Sugama, synonymous with Sugat, and Thews that he was a follower of Budd'ha: and Sangama, even now, is not an uncommon name in India, particularly in the Peninsula. Zuzan is for Sajan's, or Sezan, as written by Father Giorgi. It is the name of the father of Budd'ha, called also Ajana, by the Pauranics, and the disciple and successor of Manes, who pretended to be an incarnation of Buddha, was called Sisinius.

THE place of his martyrdom is called Calemine by Haysberrus. according to Mr. Tunwan. Calamina is a Tanuli denomination, and literally fignifies earth, and stones, alluding to the nature of the foil. It is synonymous with Mana-para, which figuifies the fame thing, acvording to F. BARTOLEMED, a millionary, apquainted with both the Banserit and Tamuli languages, ; but I by no means conspive them to be the same place, Cald or Calu in Tamuli significa a stone, or Callen in French, and Mane earth. Thus, point Colymone, the true name of which is Cálá-medu, figuifies the flony hith. Thidre were two bishops of the name of Hirrolytus, one of whom refided in Arabia, and they were contemporaries. The latter probably, wrote the treatile concertaing the perceptinations of the Apostite, and died, A. D. 230.* Dorotheys, another bilkop, born in the year 254, wrote also on the same subject; and some sugments of his work are to be found at the end of the Chronicon Paschale, There he afferts, that St. Thomas died at Calamita (Cálá-me'du,) which is fynonymous with Calamina. or nearly fo.

Some Manicheans, at a very early period, went to the Malabar Coast: for, according to LA CROZE, in his history of Christianism in India, the Christians of that country said, that, before they had submitted to the jurisdiction of the Catholicos, or Nastarian Patriarch, and of course, before the arrival of MAR-THOME, there came into their country a certain MANNACAVASSAR, who preached a new doctrine, seduced the people by his pressiges, and introduced his errors. LA

Series Patrum, p. 6a.

Caoux did not understand the meaning of the word Mannacavassan; but fulpected that he was a Manichean. He was called, by the people of the Delim, ManuCavasan, which lignifies the bard, the prophet Mani. Cavissan is derived from the Sancrit Cavi, poetry, longs, and Liwara lord, chief: Camis'an, for Cavins'wara, lignifies the lord of the long, or the chief bard, and is used in that sense in the Peningula, according to Major Mackeness.

The two Musleman travellers in the ninth century, and the Nubian Geographer, probably on their authority, declare, that there were many Christians, Manicheans, Jews, and Muslemans in Ceylon: and that the King encouraged their public meetings, and that the learned Hindus of that country used to frequent them; and that the King kept recretaries to write down their respective histories, and the exposition of their dostrines and laws. These two travellers were in Ceylon, at that time; and these meetings, as well as the places at which they were held, are called Charchits by the Europeias, and appointed for the purpose of making Charchá, search or investigation, into new dogmas, and opinions, which began to distant the peace of the country.

THE Mahamedans in India acknowledge the costy climblishment of the Christians in that country. Fainteners, in his general history of Hindustan, says: "Formerly, before the rise of the religion of Asians, a company of Jews and Christians came by sea into the country (Malabar) and settled as merchants or Pubcáras. They continued to live there until the rise of the Musleman religion."

[·] Aliat. Reg. Milcell, p. 151.

III. The decline of the Christian religion, in India, must be attributed, in a great measure, to the progress, equally rapid and assonishing, of Islamism, in Syring Persia, Egypt and Arabia. The Christians in these countries, being in a state of distraction, no longer sent pastors to India; as we are informed in a letter written in the seventh century, and still extant, according to Mr. Turner. There we see the Nestorian Patriarch Jesujanus of Adiabene, reproaching the Metropositan of Persia, with having shut the doors of the episcopal imposition of hands, before many people of India: that the sacerdotal succession had been interrupted, from the maritime borders of Persia, down to Colon, or Coilan, a space of above 1200 Farsangs. This agrees with what is related by Musleman writers, who say, that in the reign of the Caliph Abdulmane, in the latter end of the seventh century, the Christians of India sent to Simon, the Syrian and Jacobite Patriarch of Alexandria, requesting that he would send them a bishop.*

The bulk of the Christians of St. Thome, according to Mr. WREDE, like the Anyas, confished of converts from the higher classes; and they were nearly upon the same footing with the Brahmens, and Nairs or nobles. They were originally much respected by the Hindus, and native princes; and they considered themselves equal in rank with the Brahmens, and Nairs, and claimed the same exemptions and privileges, which were granted to them. Many amongst them, preserve till now the manners, and mode of life of the Brahmens, as to personal cleanliness, and abstaining from animal food: and the Roman missions.

[.] See D'HERBELOT'S Biblioth, Orient. v. Hend, u Sind p 415.

ries, in generale, adopt the fame regimen, in order to gain smedit among them.

These Christians were then very properly denominated Arysis, and Tacshaeas, or Paishedra Bridinsens. These and their Kings probably introduced the Christian Era into their country: but, in the same manner, that their saidtity; and their power in Milit and foretaid in the Puran'as, their fall is equally mentioned. When, says the compiler of the Vayu-Pitran'a, their time is come; the Arysis will pass away, like the rest.

These good Aryyas are called Salwas, Salavas and Salyas in the Gumáricá-c'han'da. These three sorms are regular, but the last, according to Mr. Joinville, prevails in the Dekhin, and Ceylon; where they are called Sálé, Sályas, and Chállyas, because, I suppose, they were the sollowers of Sa'la. They are called also in that country, Saca-Rájá-vánsas, and Sála-vánsas in the western parts of India: They are now sollowers of Budd'ha; and in the Peninsula the Christians are included in the general denomination of Bauddhists, and their divine legislator is considered as a form of Budd'ha.

Tan chief of the Salyas, or 'Aryas, is, called.' Argus the by the followers of Budd'ha, a Sanscrit compound implying as much. He was overthrown by Budd'ha, and yet he is called Pra-Arya-sira, or Pra-Aria-seria, the venerable Sire, or chief of the Aryas.

THE Manicheans, and the Muslemans, on the authorisy of the Apocryphal. Gospel of the childhood of Christ, and that of St. BAR-

NEEDS, of which they have copies in Arabit, Persian and even in the western languages of Africa, represent CHRIST, as the most complete Tacshaca, shat eyer existed. He was not only an excellent carpenter and flatuary i but he was deeply skilled in the combination of all forts of realouts. For this realon, the ingenious 'H. Syxx; who has given us a spendation of the Gospel of Christ's childhood, from the Arabic, and lome fragments of the priginal in Greek, lays, that divers in, Persia, consider, Cuarar iss, their patron. It seems indeed that the greatest, part of the Christians, in Arabia and Persia, were handicraftmen: and that they were accordingly called Peishe-caras, both because they were really lo, and because they were the followers of the great Tacshaca or Peishe-cara. According to D'HERBELOT, the disciples of CHRIST were called in Persian, and Arabic, Kassarins or Kassaruns, and Havaryuns, that is to say, fullers and bleachers: and the priests of the Christians of St. Thomas are called Kassanars to this day, perhaps for Kassaruns.

MR. JOINVILLE, in his account of Ceylon, mentions the arrival of numerous families of these Teishe-caras, Peish-cars, into that island; and declares, that they were all artificers, and handicrastemen, as implied by their name, which is truly of Persian origin; though used all over India, in the northern parts of which, it is generally pronounced Pushe-Raz. According to T. Hyde, the Parsis in India, are all artificers, and those in Kirman deal chiefly in woollens.

THERE were formerly Brahmens in India, says the same gentleman, who were handicrastmen, such as weavers, weaving stuffs variegated

^{*} As. Res. vol. 111 p. 433. 443.

with gold and filver, and of divers colours. Thele were sailed, from that circumitance, Peish-cari-Brahmens. But they said not be followed ers of Brahmas; for the employments of Weavers, and dyers, are abled lutely incompatible with the facerdotal class; in extreme difficulty Brahmen may fell fluffs, but even then, under very peculiar reflective ons. They might however have called themselves Brahmens, directly one in his own religion. A few individuals might have become weavers; but then, they would lose their cast, and it is impossible that a numerous body of Brahmens should follow that protession. It is then much more probable, that they were not strictly speaking Brahmens of Hindu extraction; but the followers of a new religion, introduced by foreigners, the disciples of a Paish cára, and themselves Peish-cáras, or at least many of them.

the famous war between Ra'MA' and Ra'MANA, called the Rawara-Yaddha. Ra'MA lived thirteen generations before the Cali-yaga, and Iwaring to about 400 years; and the Cali-yaga began 1370 years before Christ. The completion of the 1845 years will then fall about 77 years after Ghrist. Vijaya, according to Captain Manohus, was the first King of Ceylon, after this period of 1845; during which, the island was desolate, and overun by Demons. Then, says the same gentleman, the Christian natives insist, that this King Vijaya was crowned 77 years after the birth of our Saviour. This King Vijaya was not a Baudhist: for the ninth King after him was the first who embraced that religion; and his name was Devent-pati. All the missionaries to Ching, were really Tanhaces, or Peish-cara Brakmens, in the Strictest. fense of the word, as well as the pions. Moravians: and Paul the Apostie was a Tacshabb and Peish-cara Brahmen: and, by the account of Mr. Wanda In his narrative of the Christians of St. Thome, they were formerly Peish-caras: for, says he, they were in fact the only, or at least, the principal merchants in the country, till the arrival of the Arabs.

in the Magadhi language, the names of which he mentions, says, that there were even Kings among these Peish-cára-Brāhmens, in the Peninaula, to the number of thirty-sive: from the context, it appears, that some were in a collateral, and others in a successive line. The names of their kingdoms, or rather their Metropolitan Cities, were Solo-patan; Mahá-pattan (now Pattan, the Baitana of Prouzmy in the Dekhin, on the banks of the Goddweri, to the southward of Dewletabad); Curu (now Cauri, or Copr); Gadahare (Gauda); Mácanda, (now Mahá-cun da-pilli); and Cári. This is consirmed in the Bhaganat, Váyu, and Brahmanda-purán'as, in which it is declared that Asyra, or Saca, and Sálsou was the name of a dynasty of Kings in India; and who were to be immediately followed by the invasion of numerous swarms of other foreign tribes; and of the dynasty of these Sacas, there were sive and twenty Kings, according to the Purán'as in the chapters on suturity.

SOLO-PA'TAN was a sea-port town, according to Cosmas Indopleus-*The, about the middle of the fixth century, on the Pepper, or Malabar

[·] Asi Res. vol. vii. p. 443.

t In the Sections on Futurity.

Goast. There were, fays he, five sea-ports sumous for trade, Parti, Mangarouth, Salou-patna, Nalo patana, and Poudu-patana; and all these names are truly Indian. There are several places in the Peninsula, called Parti-guddy, or fort of Parti. Mangarouth seems to be Mangalore, and Nalo-patana, Nali-suram; Salou-patana is called Sooloo-patonow by the people of Ceylon, and had Kings of its own of the Peshe-caré-Brâhmen tribe, or Christians.

S'A'LO-PATAN, otherwise 'Sálo-buram, and 'Sálo-pur, is the same with Hála-bor, where St. Thomas landed, and its present name is Cranganore. There he converted 'SAJANA son of the King of that country.

WE read in the history of the Christians of St. Thomas, that they had Christian Kings of their own; the first of whom, was called BALIARTE', from the Sanscrit Bali-arhat. After several successions, one of these Christian Kings dying without male issue, adopted the King of Diamper for his son, according to the custom of the country, though he was a heathen, and appointed him his successor.

THAT a society of Peishė caras, weavers, and handicrastmen, however numerous, should have Kings of their own, is inadmissible; unless they were upon such a sooting, as the Christians were formerly in the Peninsula. St. Thomas converted the son of the King of some country on the coast of Malabar; and the Puranas declare, that there was a dynasty of Aryya Kings.

The name of Aváryya is not totally unknown in the Reninsula: they have still in great veneration, a certain Sibyl of divine origin, most pi-

Ous, and good, called 'AVYA'R; and who lived in the ninth century. A translation of some of her moral sentences, is inserted in the seventh vol. of the Asiatick Researches. It seems she was conversant with the Christians of that country; for among her proverbs, there are some, that are far from being in the usual style of the Hindus.

THE descendants, or followers, of 'SA'LA-VA'HANA are mentioned in the commentary upon the Calpa-druma. In religious matters, and particularly in the east, they generally call the followers of any reformer, or legislator, his descendants. In the above commentary SA'LA-VA" HANA is declared to be a Jaina, meaning, either & follower, or a formof JINA. He is called there also, a 'Sravaca, or 'Sávaca; that is to say a Peish-cara. In the western parts of India,, as in Gurjarat, they call all tradefman, banyans, &c. Sávacas, or Sábacas. The famous CALI-CA'CHA'RYA is supposed to have visited 'SA'LAVA'-HANA, at Pratish'tána in the Dekhin; and, according to the above commentary, he was borne 903 years after the ascension of Jina, or 43 years B. C. He travelled all over the Peninsula, teaching, and explaining the dostrine of JINA; and particularly among the Sábacas. He is supposed to have taught 'SA'LA-VA'HANA some peculiar rites, to be observed at the full, and new moon; which, he promised, he would enjoin his descendants, or followers to observe. The posterity of a Sábaca, or Feish-cára, particularly in India, were necessarily Peish-caras, and Sabacas. A patronymic denomination was also given to them; for they are called 'Sálwas, Sálavas, and Sálbas in the Cumáricá-c'han'da, answering to the 'Arabic expression, of Ashab-al-Sálib, or Salb, the followers of the cross, er of him, who was crucified, According to A. Roger, there is fills in the Delhin a considerable tribe of men called Sálavádis, from the Sanscrit Sálavádicas, the Sálavas or followers of SA'ER.

In the Váyu-puran'a, they are called 'Sacas, and in that passage, this name is used in the room of 'Aryya' to be found in other Puran'as; and it is declared there, that they would appear with the Andhras and Pulindas; the dynasty of the first began in the year 191 after Christ: and it is obvious from the context, that the dynasty of the Sacas, 'Aryya's, or Salvas was contemporary with those of the And'hras, and Pulindas; though we cannot fix precisely the time when it began, By Pulindas, they understand dynasties of Kings from the lowest and vilest classes in India.

The descendants, or followers of King Saca, are called by Mr. Joinville, and Captain Mahony, Saca-Rájá-Vánsas, a true Sanscrit expression, implying as much: and we have seen, that, there are still in the Dekhin, and Ceylon, some families or tribes so called to this day. I was greatly surprised, sometime ago, to hear from most respectable Pandits, that there was in the district of Benares, and in the province of Oude, a tribe of Rájaputras, who boasted of their descent from 'Sa'liva'hana; and that the chief of that tribe was considered as a living hereditary deity, and a form of Vishnu, like their Sire Sa'liva'hana. Whas is still more surprising, is that this chief does what he can to conceal his divinity, and to make people believe, that it is not so. But in despite of his endeavours, some peculiar circumstances will occasionally betray him; and such an instance, it is said, happened last century. They are descended more probably from the sollowers of

another Sa'Liva'Hana, a Manichean, or Manes himself, as I observed before.

As these Rojaputs call themselves Vais'yas, synonymous with 'Sravaca or tradesinan, it seems, that they originally followed that profession. Probably some will say, that if the 'Saca-Rája-Cumáras, had been once Christians, they must of course have lost their cast. This might be the case now: but, I do not believe it was so formerly; and then, the Purán'as afford us immediate remedy, for in the chapters on futurity, it is declared, that the Kings of Magadha would raise men of the lowest classes to the rank of Brühmens, and other superior casts; exactly like Jeroboam, and other Kings of Israel. This prophecy was to take place, after the fall of the And'hra dynasty in the seventh century.

Besides, a whole district, a whole tribe, might embrace another religion, without losing cast; the full exercise of its privileges being always confined to themselves. For we must not think, that persons of
the same cast, will communicate one with another all over India, and
eat together, or of food dressed by another. The communication is
confined to a few samilies in their neighbourhood, whom they know
to be strict observers of the rules relative to their cast. The sest of the
tribe are in a great measure outcasts to them. This almost incredible
adherence to the punctilio of casts, was in a great measure owing probably to the rapid increase of the religion of Budd'ha, then afterwards of that of Christ, and Muhamed, and of the herely of

^{*} See Brahmanda and Vayu-puran'as. Section on Futurity.

Manues, in the N. W. parts of India, and also on the coeft of Malaber, and Coylon. Among the Christians in the Peninsula, be they Protes. tants, Roman Catholics or Nestorians, there are Brahmens, who are nearly upon the same footing with the other Brahmens; and, when acquainted with them, such civilities, as are usual among well bred people. are never omitted. The Christian Brahmens most rigorously abstain from beef, and animal food, though they say they can eat of it. The greatest part of the Brahmens in Persia, Turan, and near Baku, cat beef, but never of the flesh of the cow, like many of the Egyptians of old. There are several of these Brahmens settled at Benares; and they are acknowledged as fuch, though not much respected, being nick named Véda brash'tas or breakers of the Védas; for a Brahmen may be a heretick without losing his cast, which is not so much connected with his creed as might be supposed. In short, the Hindus acknowledge themselves, and it appears from their sacred books, that they are beef formerly; but they took care to inform me, at the same time, that they never ate of the flesh of the cow. It is declared, that there are no Cshettris now, or in other words, that the second class no longer exists. Yet those, who have been raised to that rank from the lowest classes, are treated as such by every Brahmen.

We read in the institutes of Menu, that all the Chasyas, or those who inhabit the snowy mountains, have fost their cast. Yet they must have recovered it; for there are numerous families of Brahmens in those countries, particularly in Almorah or Comanh, and much respected at Benares, who by no means consider the bulk of the inhabitants, who

confidered them as belonging to the second class, and that they are treated as such by every Brahmen, in despite of Manu and of the Putan'icas.

LET us suppose some extensive district in India solely inhabited by Europeans, and that these were entirely willing to conform, in every thing, to the religion of BRAHMA', and the manners of the Hindus. Their resolution would be highly approved of by every Brahmen; and they would foon find many to officiate, and pray for them, on their being of course paid for their trouble. Let us add to this, numerous grants of land, villages, honors, privileges, and an entire submission to their will, they would soon treat them as Cshettris, as they do the present Rájputs. It is true, they could neither intermarry, nor eat with the other Hindus, but the four great classes never intermarry, nor eat, but with particular families of the same tribe in their own class. After a few generations, they would say of these Europeans, what they say of the present Rájputs, and Máhrátas, that they were not originally Cshettris nor Bráhmens, and are a spurious race. This would not do. it is true, for a fingle individual, who would find himself insulated. and lost entirely, unless he assumed the character of an anchoret or penitent. I had long conversations with learned Pandits, on the subject, and this was their opinion, and that even they might have Brahmens of their own, by studying their sacred books, and obtaining the necessary knowledge, which would not be attended with much difficulty. With regard to their ancestors having ate beef, this could be no objection, as there is not a Hindu, whose ancestors, at some remote per riod, it is true, did not eat beef, and every fort of animal food, except

perhaps a few unclean forts. Whatever man, say: the learned, performs the duties (Carma) of a Cshettri, him you must consider as a Cshettri. But what should put an end to the controversy, at least in my humble opinion, is that the Mábnáttas, a numerous and respectable tribe of Bráhmens, and Cshettris, are acknowledged, all over India, to be foreigners from the western parts of Persia, who lest their native country not 1200 years ago, as I shall show in the appendix. Even though this alleged origin of the Máhráttas should prove untrue, yet the universal acknowledgment of it is very much in favour of my assertion.

THE followers of BRAHMA', and those of Budd'HA, were by no means indifferent to the progress of foreign creeds. They often order ed conferences to be held, where the principles of these religions were inquired into, the hiltory of their legislators &c. This was practised in Coylon in the minth contary, according to RENAUDOT's two Muskman travellers': and Brahmens unanimously acknowledge, that this was their practice formerly, with regard to the Baudd'hists; and that these conferences were called Charcha; or investigation, search, Cherche in French; and that towns appointed for that purpose, were called Charchita-nagari, one of which is mentioned in the Cumáricá-c'han'da. " In the year 3291 of the Cali-yuga (or 291 after CHRIST) King 'Su-DRACA will reign in the town of CHA'RCHITA-NAGARA, and destroy the werkers of iniquity." This points out a perfecution in religious. matters, at a very early period. These conserences ended in blood. shed, and the most cruel and rancorous persecution of the followers of BUDD'HA, even from the confession of the Brahmens themselves. They were tied hand and foot, and thus thrown into rivers, lakes, ponds, and

sometimes whole strings of them. Be this as it may, the followers of BUDD'HA did not fail to retaliate, whenever it was in their power; for Dr. F. BUCHANAN informs me, that in the Dekhin the Jainas make their boast of the cruelties, that they exercised at different times upon the Brahmens, and that there are even inscriptions still extant, in which they are recorded. This general perfecution was begun by a Brahmen called CUMA'RILLA. BHATTA'CHA'RYA; and carried on afterwards by SANCARA'CHA'RYA, who nearly extirpated the whole race. It is difficult to fay, when this took place; but as there were vast numbers of Baudd'hists in the Peninsula, in the Gangetic Provinces, and Gujara't, in the ninth, tenth, and eleventh centuries, this general profcription could not of course have taken place at these periods. It is very probable. that the-Christians avere occasionally involved in these persecutions, as the Christians of St. Thiomas are confidered as Bould'hists in the Dekhin, and either their divine legislator, or his sposse : Thomas, is as. ferted to be a form of Bunn'HA.

The Hindus, and more particularly the followers of Budd'ha and Jina, fancy, that there are hidden mysteries in certain numbers. It was so formerly in the west, among the heathens, the Jews and the Christians. All over the world, the numbers one and three were considered as radical; and their combination was subject to whimsical rules. They are by no means to be added together, for one and three in a mystical sense, are but one and the same thing. We might suppose, that the square, and cube of three would be sacred numbers, but it is by no means the case. Eight is the mystical number, and three times eight, or twenty sour is a sacred number; and being multiplied by three, the pro-

duct is mystical also, and the number of years of Jina's life. The reason is, that one stands in the center representing Jina, who is three and one. Eight forms sprang from this, toward the eight corners of the world, and each of these is three and one: but we cannot say, that these eight forms, with the original one in the center, make either nine, or twenty-seven, for though each collateral form is perfectly distinct from each other, yet it is individually the same with the original one. Sectaries, at an early period, entertained accordingly strange notions, concerning the number of years, that Christ lived concealed, performed the duties of his ministry, and lastly about the length of his life. They conceived, that every circumstance, relating to so exalted a character, was mysterious. Some insisted that he lived thirty, thirty three, forty, and others nearly, but not quite, fifty years. Stephanus Gorarus has collected many of these idle notions, in the extracts made of his works by Photius.

It is not obvious at first, why 'Sa'ttva'hana is made to have lived 84 years, but it appears to me, that this number was in some measure a sacred period among the first Christians, and also the Jews, and introduced in order to regulate Baster day; and it is the opinion of the learned, that it began five years before the Christian Era, and the fifth year of that cycle was really the fifth of Christian Era, but the first only of his manisostation to the world, according to the Apocryphal Gospels; and it was also the first of the Christian Era. In this manner the cycle of 84 years ended on the 79th of the Christian, which was the first of 'Sa'liya'hana's Era, and was probably mistaken for the period of his

life. It is mentioned by St. Epiphanius, who lived about the middle of the fourth century.*

IV. THE followers of BUDD'HA, in Siam and the Burman Empire, mention the wars of their legislator, with De've-Ta'T, who, they say, is the legislator of the Christians. He is the same, who is called a Tacshaca alfo by the Hindus; and who manifested himself in the first year of the Christian Era. They My, that he was, either a brother, or a relation of BUDD'HA: or in other words, he was a collateral form of BUDD'HA. They acknowledge some conformity between his doctrine and theirs, because, as they say, his disciples borrowed many things from BUDD'HA. He allowed them, however, to kill and eat all forts of animals; and Teduced very many of the disciples of Bupp'na: and aspiring to sovereignty, he waged war against Saman'a Gautama. He appeared at the head of a new fect, and engaged feveral Kings, and nations, to join him. He had the gift of miracles, and afferted that he was a god. DE'VA-TAT being several times worsted in this war, made overtures of peace, and Saman'a - Gautama consented, on condition, that he would subscribe to three articles, which he was going to propose. These were to worship, first, God; then his word, and thirdly the perfon, who imitates the divine perfection, or in other words, to worthip BUDD'HA. This last article was rejected by Da've-Ta't or his disciples, and they went to war again; when DE'VE-TA'T was defeated in the forest of Salatinah in the Peninsulat He was taken prisoner, and em-

[·] See Basnage's History of the fews, page 436. English Translation:

[†] This is noticed also in the As. Res. vol. vi. p. 269.

paled alive, with his limbs truffed up, upon a double cross; and in that state hurled into the infernal regions. 'Saman's-Gautama, however, foretold, that is the end he would really become a god. Budd'ha, or Gautama is also represented waging war with Pra-'Aria-Seria, for Pra-'Aria-Seria, the venerable chief, or Sire of the 'Aryvis or Christians; and another chief of them, called Pra-Swans, or Pra-'Swana, from his loudly preaching against the doctrine of Gautama. Budd'ha and Deva-Twasht'a are made contemporaries in this romance; but this can be no objection; for it is only in allusion to the wars of their followers in subsequent times. The learned are very well acquainted, that this made of writing history once prevailed in the west, at a very early period,

The beginning of the seventh century is remarkable for the introduction of new eras, among the civilized nations of the world. The Christian Era was introduced at Constantinople in the year 526: but, as the learned observe, it was a hundred, years before it was generally adopted, and this was in the beginning of the seventh century.

In Persia, the era of YEZDEGIRD began in the year 632: that of the Hojra was introduced by OMAR in the year 638. These of Siam with the Burmáhs have an era beginning in the year 638: but as they borrowed every thing relating, either to their religion, or their astronomy, from Ceylon, and the Peninsula of India, this period must have originated there. The Japanese consider the ascension of the latter Budgina, under the name of Gusoibosatz, as a memorable epocha; and it happened in the year 631, because they say that he lived only 59 years, and he was born in the year 572. According to the Satru-

VASISHT'A, that is to say, he who abides in the mortal frame of an elephant, and called in the above treatise 'Sri-HASTI-S'ENA, a compound nearly of the same import, happened three years, eight months and sisteen days, before the time of the Panchmárás, or MUHAMED and his sour associates; that is to say, he died in November 617. But, if we suppose, with the Pauránies, that he lived 66 years, his ascension will sall in the year 638, according to the computation of the Burmans and Siamess. This BUDD'HA was born in the year 500, and reigned 65 years, according to the Cumárica c'han'da, in some copies of which, we read 62, and 64; but he appears to be the same with GAJA-VA-BISHT'A; both being represented as the last incarnation of BUDD'HA; the Japanese having mistaken the era of his manifestation as a god, or his death, for that of his manifestation as a man.

THUS the Jainas in India say, that their legislator died in the year so36 B. C. which the divines of Tibet consider as the year of his birth.

THE Christians of India, in the seventh century, were actuated by the same principles, and chose the supposed year of Christ's ascension for the first of their new era. They were at that time in India in the most profound ignorance, through the want of pastors, as we observed before: and their religion was a strange medley of the Christian, and of that of Budb'ha, which prevailed at that time in the Peninsula: insomuch that M. Polo considered some of the Arypes, in despite of their virtues, as idolaters. Sa'li-va'hana, or Deva-Tat, was considered as a brother, or relation of Budb'ha,

Our blessed Saviour entered on his mission, when whirty years of age, like Bunn'na; and like him, he was born of a virgin; the additional years weit introduced from their militaking the ecclelialtical cycle of 84 years for the period of his life; and like them, the Christians. made a point of reckoning their era from this supposed year of his afcension. This was not peculiar to the Hindus; the Christians of Egypt chose the various manifestations of CHRIST, during his ministry, and the different events of his life, in preference to that of his birth, According to the appendix to the Agni-puran'a, the-era of 'SACA, or SA'LA-VA'HANA, was introduced into India, or began to prevail, in the year corresponding to that of Christ 676, exactly 135 years after the death of a certain VICRAMA'DITYAA The bloody wars, between these two exalted characters; are supposed to have been only about their respective eras; and VICRAMADITYA, in his dying moments, thought of nothing but his era; whilst it is the general opinion; that it began at his death, and of course he could not be the author of it. One would imagine that 'Sa'Liva'Aana's era would have begun, the moment that he became a Saca, by putting to death another Saca, such as VICRA-MA'DITYA, was; but it happened otherwise, 'SA'LI-VA'HANA thought no more of his own era, which was introduced after his death by his followers, or adherems in the Dekhin; for it never was used in any other. part of India.except. Bengal.

It is therefore my humble opinion, that the Christian Era was introduced, and new modelled in India by the Christians, and the Arma, or Salava, Kings, on the dictine of the Christian religion; and used by them, and other Ibraius in their intercourse with them.

It is supposed, that the Brahmens are soo, proud to horsew any thing from their neighbours; but this is by no means the case; and; whenever they are acquainted with the circumstance, they will most candidly acknowledge it, particularly astronomers and physicians.

AFTER the conquells of ALEXANDER, and for many centuries after, there seems to have been an eager desire, in India, for foreign arts and sciences, curiosities, instruments of music, wine, and even beautiful damels from Greece. According to ELIAN, and DIO CHRYSOSTOM, the Hindus, as well as the Persians, had the works of Homer translated into their native languages: and PHILOSTRATUS says, that they were well acquainted with the ancient heroes of Greece; and that they had statues made by Grecian artists. And this is very possible, as the Greeks of Bactriana were in possession of the Panjáb, for more than a hundred and twenty years. The Kings of Magad'ha repeatedly wrote to the fuccessors of Alexander, for sophists, or learned men from Greece; and lately the famous JAYA-SINHA, Raja of Jaypur, wrote to the King of Portugal for learned men; and he had several sent to him; and the King of France sent him also an astronomer, P. Boudier. He had the elements of Euclid translated into Sanscrit, part of which fell into the hands of Mr. Davis. There, it is said, that this valuable book, originally written by Vis'vacarma, or Twasht'a, the artist god, had been lost for many thousand years; but was rescued from obscurity, by the extraordinary efforts of JAYA SINHA.

He had also another voluminous treatise, called the Sidd'hanta-Sami a't, on geometry and astronomy, entirely compiled from various

and was produced at Jappur, by Colonel Collins resident with Sinpia. Mr. Dayis informs me also, that at the same time the work of Theoposius, on the sphere, was translated into Sancrit. As these thesis are not recorded, the circumstance is hardly known now to any of the natives. Japan sinha had also an extract made of all the constellations in Senex's celectial planishere, and instead of 7g afterisms, he had 144 made out, by splitting all those that would admit of it, into two or three new ones. The royal oak of course has found its way there, under the name of Mula-vricsha, the radical or primeval tree: and the Indian is called Sarendra, or the chief of archers; and as the Hindus have no alters, the constellation of that name has been converted into a footstool.

THERE is a famous astronomer, whose works, or at least part of them, are still extant, well known all over India; and declared to have been a foreigner, as implied by his name of YAVANA'CHA'RYA, or the Grain philosopher, and who lived, according to tradition, a little before the time of Muhamen. The Hindus give the name of Yavanas, or Greeks, to the inhabitants of the countries to the west of India, probably because the Greeks were once masters of Persia, and asterwards the seat of empire was fixed at Constantinople. From the account they give of him, it does not appear that he was a native of Greece; but only deep-ty skilled in the learning of the Greeks, having probably attended the university at Alexandria.

THEY say, that he was a Brahmen, born in Abraia, the inhabitants of which country were, at that time, followers of BRAHMA, and that

the Sanscrit language was studied and well under seed there by the learned. He came to India, where he relided for a long time, and in his old age he returned to his native country, in order to end his days at Mocshes wara-sthan, or Mecca, in the performance of religious duties. Dr. Buchanan informs me, that he saw in the Dekkin several tribes of Jainas, who insisted that they came originally from Mecca or Arabia; and that they were expelled by Muhamed, or his successors.

THERE are certainly followers of BRAHMA', and Brahmens, to this. day, in Arabia: and I am credibly informed, by natives of that country, that in the interior parts, there are still many idolaters, whom they suppose to be followers of BRAHMA', or Handus as they call them. The greatest part of the old names of places in Arabia are, either Sanscrit, or Ilindi: and Pliny mentions two celebrated islands, on the southern coasts of Arabia, in which there were pillars with inscriptions in characters unknown, I suppose to the Greek merchants, who traded there: but these were probably Sanscrit; as one of these two islands was called. Isura or Is'wara's island, and the other Rinnea, from the Sanscrit Hitniya, or the island of the merciful goddess.

THE Hindus claim Mecca, as a place of worship belonging to them, and certainly with good reason. They say, that they were allowed to go, and worship there, for several centuries after the introduction of the religion of Muhamen; but were asterwards positively forbidden, even to approach this sacred place.

I ALWAYS conceived, that there was only one lage of the name of YAYANA'CHA'RYA; who was considered as a foreigner: but

having confulted lately several learned astronomers, they informed me, that there were no less than five, who are considered as foreigners. Their names are C'HATTA, C'HUTTA, RO'MACA, HILLA'JA and DISHAmas these, it is said, were Yavanas or Greeks. They certainly have very little resemblance with any Greek proper names, which we are acquainted with. Be this as it may, they are all supposed to have returned to their native country, with an intention to end their days at Mecca. From this circumstance, I suspect, that they were Greeks from the samous university of Alexandria; and Mecca was at a very early period a famous place of worship. •GUY PATIN mentions a medal of ANTO-NINUS, in which it is called Moca the facred, the inviolable, and using its own laws: and of this I took notice in my effay on Semiramis. The university at Alexandria was in a flourishing state, from the time of the Prolemies, to the fourth and fifth centuries, and even till the time of MUHAMED. Hindus often visited that famous city; for Prolemy conversed with several, in the third century, who appear to have been well informed men.

These five foreign altronomers wrote many books: but few remain: and the reason, in the very words of my learned friends, is, that the substance of these treatises, having been incorporated into more recent tracts, they were of course neglected, and afterwards lost. This acknowledgment from Brahmens surprised me not a little; but I find, that astronomers in general, and learned physicians, are much more tractable, and conversable, than the other Hindus.

WHATEVER may be our opinion about these sive strangers, their names, and their country; yet from such an acknowledgment, and

force particularly so from Hindus, we may rest assured, that there is some truth in it. The Hindus reckon three and twenty samous astroumomers, eighteen of whom overe natives of India; and the five others, foreigners. These they insist were natives of Arabia; and if so, they were called Yavanacharyas, not because they were of Grecian extraction; but because they were skilled in the learning of the Greeks. Indeed their names, or rather surnames, appear to be Arabia. Hallage, and Cathan are names well known to Arabian writers; and Ebn-Dissan is the name of a samous impostor born at Edessus. Of Romaca or the Mle'ch'ha'vata'ra, I took particular notice before, and Dishan is the name of Omar in several copies of Raghe-natha's list; and it was he who first established the era of Muhamed in the year of Christ 638, and for this reason, they supposed him also to be a great astronomer, as well as Romaca.

THERE is another astronomer, called Cangha or Cangham, and Cangheh, whom the Hindus suppose to have been a foreigner; yet Musleman writers say, that he was a Hindu, and perhaps he lived on the western frontiers of India. By D'Herbelot he is called Cangahal-Hindi, Kenker, Kencar and Cangha. He wrote a treatise on astrology, in Hindi or rather Sanscrit, which was translated into Arabiq, and is said to be extant. He is perhaps the same with Mangheh, who, according to D'Herbelot, made so conspicuous a sigure at the court of Harun-al-Rashid, about the year 808, as a physician. The samous Dandamis or Dama-damis is unknown to the Hindus; but the Muslemans in India call him Tumtum, and D'Herbelot Thompthom-al-Hendi. He is noticed by Abul-Fazil in his preface to the

third volumn of the Aphilisteri. He was probably them sailed, because he lived upon a Dundum or Dundumá, which is a platform (of earth; now, more generally sailed a Chibootta or Thané, from Athana arthura.

As the names, or rather the surnames of these foreigners, are in great part derivable from the Arabic, and from no other language, it is not improbable, but that several, if not all of them, were from Arabia, whatever their religious tenets might have been. The first of them, according to tradition, lived a little before Muhamed, when the schools of Alexandria, and Berytus in Phanice, were still slourishing. From that period, learning began to revive among the followers of Muhamed; and of course this searned man flourished, from the latter end of the sixth, or from the beginning of the seventh century to the time of Al-Mamun, who reigned at Balkh in the tenth, and till the invasion of India by the Muslemans.

THE Hindus, at an early period, were famous for their knowledge of aftronomy and astrology. The latter is entirely grounded, upon the former; and the accuracy of the decisions, and predictions, dependent tirely upon the precision, with which the conjunctions, loppositions, and the various aspects of the heavenly bodies are ascertained. In the first century, Hindu astrologers, were in high estimation and repute, at Rome, and none but the richest men could afford to employ them. It appears, from Arrian on the authority of Megasthenes, that in the time of Alexander, they had almanacs, with predictions con-

ARRIAN de Indicis.

cerning the weather, and impending calamities, such as they have at present, but more particularly so in the Peninsula. STRABO says, that the Braimens professed astronomy ;" and he extols, at the same time, the attention they paid to learning. Q. Cuartus testifies, that they skilfully observed the motions of the heavenly bodies,+ Euszus, who lived in the third and the beginning of the fourth century, fays that it was a Hindu, who first delineated schemes of the heavens, or the principal constellations. His name was Annuagasus, and he was confidered as the founder of astronomy in India, and was famous for his skill and wisdom, According to Euseanus, he lived soon after the flood, in the western parts of India; and this samous astronomer probably formed, and delineated the twenty-feven lunar mansions, which feem to be the exclusive property of the Hindus. The opinion of Eusenius, and the other learned authors whom I have mentioned, was certainly that of the age in which they lived; and STRABO fays, that the notions of the Hindus concerning the universe, and the sphericity of the earth, were the same with those of the Greeks. They had a code of laws in the time of ALEXANDER, and they wrote upon a fort of paper; for thus I understand the words in sinder him nengerapulant upon cloth well beaten. I STRABO takes notice, that in his time some afferted, that the Hindus were acquainted with the affe of letters, whilst others denied it. He adduces the above passage from NEARCHUS in

[•] Lib. 15.

[†] Lib. 8.

¹ STRABO lib 15. p. 717.

proof of the former effection; but the passage against it from MEGAS-THEMES is by no means conclusive, and seems to me, on the contrary, tolprove that they were acquainted with the use of letters; for it implies only, that they used no writing in their courts of justice in camps where every thing was settled in a summary way; and it is even so to this day. Besides, says our author, such is the probity of the Hindus, that all the time-he was in the camp of Sandracerros, which consisted of 400,000 men, none but petty thests were ever brought before these courts, and they (the judges) even could not write. Under such circumstances, neither any code of laws, nor much learning, or any writing, were necessary; common sense and integrity were the only resquisites on the part of the judges.

During the first centuries of the Christian Era, the Hindus were very fond of travelling. Their Kings sent frequent embassies to the Roman and Greek Emperors: and some of these Embassadors went is far as Spain. Others visited Alexandria and Egypt, where Ptolemy, in the third century, saw them, and conversed with them. Some of these Embassadors had long conferences, at Babylon, or rather Seleucia, with the samous Barderanes: and pilgrimages to the Schin of Maha-Bhaga, now Mabas, or Bambylis in Syria, were very common, according to Lucian, as cited by the authors of the ancient Universal History. Even to this day, pilgrims from India go to Persia, Georgia, Moseow, and Arabia, Bootan, China, and even Siberia.

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[•] STEARO lib. 15. p. 600.

Me are not to suppose, that there never was any intercourse between India and the more western countries of the old continent. There were diviners and soothsayers in Syria and Palestine, from beyond the east, that is to say from beyond Persia, and of course from India, 700 years before Christ, according to Isaiah; and these, long after, found their way even to Rome; and, according to some, it was a Hindu, that had been shipwrecked in the Red Sea, who sirst pointed out the way to India by sea. Xerxes, when he invaded Greece in the year 480 B. C. had a large body of Hindus with him, whose officers were men of respectability, and there is little doubt, but that they had Brahmens with them.

THREE hundred years before our era, the Carthaginians had numerous elephants from India, and their mahots or drivers were Hindus. They feldom used the African elephants, which, says Pliny, were timorous, and could not bear the sight of the elephants from India.† The Carthaginians had no proper name for an elephant, and from the mahots they adopted the Hindu name Gaja, which they pronounced Gaisa. Till that time, they, as well as the Phanicians their ancestors, called them Elaph or Alpha, beeves or oxen:‡ and the Romans, when they saw Pyrrhus's elephants, called them also Luca Boves, and this was in the year 280 B. C.

Polyatus || informs us, that in the year answering to 251 B. C.

^{*} STI 10 p. 98 and 100.

[†] Sylvias Exercitat. Plinian. p. 217.

[‡] HEACH, under the word Alpha.

POLIE. Lib. 1. p. 42. and Lib. 3. p. 200.

METELLUS descated Asbrubal in Sicily, killed lix and twenty of his elephants, took one hundred and four, and sent them to Rome, with their drivers, who were Hindus. According to the same author, when Hannibal crossed the Rhone 218 years B. C. the drivers of his elephants were also Hindus; and after this period, we find a Hindi word for an elephant introduced into Italy; for till that time, they called them large oxen. This name was Barrus, or Bare, as it is written by Isinorus, who says, that it was a Hindu denomination: Bare and Barronem in the objective case, are from the Sanscrit Baran'a and Baran'am. From Barrus or Bare, the Latins made barritus, to express a noise like that made by an elephant, and also the verb barrire; and probably the word Ebur is derived from it.

When Manlius marched, at the head of an army, through Caria and Pamphylia, 189 years B. C. he came to the banks of a river, near the fort of Thabusion, called the river Indus, or of the Hindu; from a Hindu mahot, who fell into it from his elephant, and was drowned; t and this was on the borders of the greater Phrygia. Sometime before this, we read in Alciphron's letters, that Hindus of both fexes, in the capacity of servants, were not uncommon in Greece. Several emigrations took place from India, and we find some tribes of Hindus settled in Colchis, where are Hindus to this day; and Hesychius afferts, that the Sindi of Thrace came originally from India. When Q. Matel.

[·] Isinon. de origin.

[†] Tu. l.v. lib. xxxviii. C. 14.

² BRYANT'S Mythol. Yol, 3d. p. 217.

ORIGIN AND DECLINE OF THE

the Caler was proconful of Gaul, 50 years B. C. the famous Article west king of the Suevi made a present to him of some Hindus, who had been shipwrecked on the German shores. They were merchants, who had ventured thus far from their native country.* In the Vrihat-catha we read of several Handu merchants, who visited the Sacred Isles in the west, and being shipwrecked, they were made slaves; and some of them were so fertunate, as to obtain their liberty, and to revisit their native country. It is declared there, that they went a great part of the way by land, and then embarked at a place called Itaneart another harbour is mentioned also under the name of Pauta-pur, and this subject I shalk resume when I come to treat of the Sacred Isles. STRAHLENBERG faw a Hindu at Tobolsk, who went from India to that place, through China. Bell saw another Hindu from Madras, on the banks of the Argone; and Mr. Duncan Governor of Bombay introduced another to my acquaintance, who had been there also. The distance from the Industo England is one fourth less, than that from Mairas to Tobolsk through China; I and the embassadors of Porus travelled as far as Spain 24 years B. C. The constant embassies, sent from India to the Emperors of Rome and Constantinople, are well known to the learned, even as late as the fixth century; but in the seventh, the growing power of the Muhamedans became an infurmountable obstacle to any further intercourse. Besides, the present state of society, manners and politicks in the west, make it. impossible for Hindu pilgrims to travel through Europe. They would

[•] Cornel Nepos apud PLIN. SUETON. CICERO in Vatin. c. 10. PLUTARCH &c.

Vribat-cai'bà Lambaca or Section the 5th called also Chaturdarica.

^{\$} STRAHLENBERG p. 103 Affat. Researches vol. vi. p. 483.

be flopped at every flep, and occasionally confined; and infleted of alms, they would receive infults only from the lower classes.

But the most famous of all, was the embassy sent by Porus to Augustus: the embassadors went to Spain, where he was at that time, 21 years B. C. according to Orosius; and the purport of their commission was to enter into an alliance with him. But, as some time was spent before any progress could be made in this affair, other embassadors were sent by Porus, some years after, when they sound the Emperor at Samos. This Porus in his letter boassed, that he was lord paramount over soo kings; and, in the supplement to the Bhavishya-purán'a, it is declared, that no less than 800 kings were the vassals of the famous Vicra-Ma'ditya. With them were also embassadors from Pandion, king of the southern parts of the Peninsula; and they had in their train a Bráhmen, a native of Brigugosha (now Bargach) called C'had sa the Sarmana, Zarmanos Chagas. He chose to remain behind, and attached himself to Augustus, in whose service he remained for some time, in the capacity, it seems, of an augur or soothsayer.

WHEN the Emperor was at Athens, C'HAD'GA the Sarmana caused himself to be initiated into the sacred mysteries, though it was not the usual time; and soon after he voluntarily ended his days on a funeral pile. Calanus followed Alexander of his own accord, and ascended likewise the sureral pile at Parargada. There was even a large detachment of Hindus, who followed Alexander into Persia, and which

[.] STRABO. DIO. PLUTARCH and NICOL. DAMASCEN.

we find on the borders of Media, with Eumenes, eight years after the death of the former. It was commanded by the brave Ketzus, probably Ketu, or the fiery meteor of war; and there was certainly little, or no compulsion used by the Greeks, for they took even their wives, and families along with them. Ketzus died fighting valiantly, and his two wives infisted upon burning themselves with the dead body; but it was found, that the eldest was with child, and therefore she was prevented from sollowing her husband. The youngest went triumphantly, and was led by her brother, and other relatives, and servants, to the funeral pile.

CLAUDIUS received also an embassy from a king of Ceylon: and when Trajan was marching against the Parthians in the year 103, some princes of India sent embassadors to him, requesting him to settle some disputes between them and their neighbours, probably the Parthians. It is remarkable, that during this expedition, Trajan was constantly supplied with oysters from Great Britim; and which were preserved fresh, by a particular process, discovered by one of the first epicures of the age. There were embassadors from India sent to Antoninus Pius, to Diocletian, and Maximian; to Theodosius, Heraclius, and Justinian; and we readt of two Hindu kings, putting themselves under the protection of Diocletian and Maximian, and their names were Gennobon and Esatech. In the year 274, Aurelian took Palmyra, and made Queen Zenobia prisoner. There he

^{*} Dievor Sic. lib. xix, C. 2.

⁴ Att. Umv. Hift. vol. xviii. p. 78.

DAMASCIUS, who was contemporary with JUSTINIAN, in his life of IstDORUS, relatest leveral curious anecdotes of Severus, a Roman, but by
birth an African, and who lived in the time of the Emperor Anthems.

US. Severus was a philosopher of most austere manners, and great
learning, and fond of the society of learned men. After the death of
that Emperor in 473, he retired to Alexandria, where he received at his
house several Bráhmens from India, and whom he treated with the
greatest hospitality and respect. Dates and rice were their food, and
water their beverage, and they shewed not the least curiosity, refusing
to go and see the most superb sabrics and palaces, with which that samous city was adorned.

It is remarkable, that ancient travellers make no mention of the monfirous statues of the Hindus. The historians of Alexander take notice
of the Sibæ, carrying among their standards the image of Hercules,
whoever he was. The Suraseni round Muttra on the Junná, had also
a statue of Hercules, tor Bala-deva. Philostratus takes notice
of some sigures cut out of the rock beyond Herdwar; but these statues
had nothing monstrous in them, no more than those made by Grecian
artists in the Panjah, according to the same author. It is not improbable then, that at that time the Hindus had not yet attempted to represent, either in stone or wood, their monstrous deities. They were first

Photii Bibliotheca. p. 1040 and SUIDAS v. SEVERUS.

^{[†} Asiat. Researches vol. v. p. 294.

introduced to our knowledge by Jews, according to CLAUDIAN, who wrote in the fifth century, and who says:

Jam frugibus aptum

Al quor, et affuetum sylvis desphina videbo:

Jam cochleis homines junckos, et quidquid inans

Nutrit Judaicis, que pingitur India, velis.

FROM this it appears, that in his time the Romans adorned their houses with tapestries, worked by Jews, and representing all the wild, and monstrous figures of Hindu mythology, such as men growing out of shells. This is an obvious allusion to SANC'HA'SURA, and his tribe living in shells, and peeping out of them in Sanc'ha-dwipa or Zangh. Bar.

In the year 529, a king of the Hemiarites in Arabia, called AL-Mon-DAR, a general name for the kings of that tribe, and generally residing at Hirah, invaded Syria; and the Roman exarchs, or Governors, were obliged to sly to India for shelter, and certainly by sea, as the Romans were at war with the Persians,* and probably they sound no other means of sessing, but by getting on board of some ship just going to sail for India.

THERE were at Rome augurs, and diviners from all nations, but mostly from Chaldea. There were some from Armenia, Egypt and even a few Jews, and particularly women from that nation. There were also astrologers, says Juvenal, t from Phrygia and India; and none but very sich people employed these, and this was about the middle of the first

[.] Du FRESNOY Chronolog. A D. 529.

[†] Sat. vi. v. 584 and 549

centurys. There were many Hindus et Alexandria, according to Prounny, who lived in the beginning of the third century. The inhabitants of Enrope, at an early period, did by no means thou to much readiness in lesving their native, homes to visit distant countries, and particularly India. We are told that Puthagonas and Dangart,
was visited the Hindu lages; but these accounts are delivered in too, yague a manner, to deserve any credit.

The first European upon record, who visited India, is Sevenne, a Greek and experienced scaman, sent by Darius Hystaspes above 500 years. B. C. to explore India. For this purpose he went to Caspatyrus or Caspatyrus, now Coihmpoor upon the Hydaspes, called also Indua and by the Indus the lesser Sindhusor Sindh. Having made the necessary arrangements, he sailed down a large river, which showed toward the east, and then he entered the ocean, and returned by the way of the Red-Sea, and sailed to the bottom of it, where his voyage ended, after a circumnavigation, both on the river and by sea, of two and shirty months. This river is unfortunately called the Indus by Heropo ros; otherwise, from the particulars, such as the course of that river, and the time that his circumnavigation lasted, one would suppose that it was the Ganges; and indeed many learned men are of that opinion:

The next European who visited India, was the philosopher Phadon, about 430 years B. C. but it was not an act of his own. He is said to have been an Elean, probably because he was a native of Elea in the lesser Asia. It is recorded of him, that he was taken, and detained by Indians, and afterwards sold by them as a slave. It is probable, that he

had been field field to some Persian nobleman, sometime after appoint. ed to the government of some district in India, where Purdon was carried away by a party of Hindus. Be this as it may, we find him afterwards at Athens, as a flave again, to a man, who kept women and handsome young men, for the purpose of prostitution. He was redeemed by Atcibiades at the request of Socrates, whose disciple he became. He sounded the Eliac school, called Eretrian afterwards, from its having been transferred to Eretria in Eubea, by Memenanus his successor.

THERE was a regular trade carried on, to India, from the accession of the PTOLEMIES to the throne of Egypt, to the conquest of that country by the Romans, which did not cease till the middle of the seventh century, when the growing power of the Muhamedans put an insurmountable obstacle to a regular intercourse. The Greeks under the PTOLEMIES, had settlements at Callian, near Bombay; but they were driven out of them by the native Kings. It seems also from the Peutingerian Tables, that the Romans had a considerable settlement near Muziris now Mirjee, where they had erected a temple in honor of Augustust; and they had also two cohorts, or 1200 men, to protect their trade. The imports and exports were the same as they are to this day, as it appears from Arrian's Periplus, and the Justinian code.

THE Greek Kings of Baltriana ruled over all the countries on the banks of the Indus, even as far as Sirhind, during a period of 129

[·] See Suidas, Hesychius de Mustrib; and Larrius.

t See Peutingerian Tables.

worse, that is to say from the year \$55 to 196 B. C. Even some of them were in possession of the western parts of the Gangelic moviness: and Demetatus is mentioned as one of them; and according to Sign Bayer, he naver was King of Bassiana or Balk, but of some inland part of India, extending beyond the Ganges, about the year 195 B. C. According to Strang, his predecessor Menander, conquered the countries to the cast of the Hypanic, as far as the Junua. His empire extended from Pattalena, to Zizerus, which I take to be the small but samous lake called Jid-jer, or the spring of Jid, noticed by Crassiand Delle.

To these conquests Demenatus added some maritime, countries, to the eastward of Pattalene, such as Sigertis, and the kingdom of Tessent riestus, now the countries of Cachha and Guijerat, as I shall show in the appendix.

THERE are now numerous Hindus roving all over Arabia and Persia, as far as Astrachan, or settled in some places of trade for a sew years only, when they return to India. For I take no notice here of numerous tribes of Hindus, who are considered as natives of Persia. Turan and Colchis or Georgia; they are called Hinds all over these countries, and have been settled there from time immemorial.

^{*} STRABO Lib. 11. p. 516.

[†] S-e MAURICE'S Modern History of Hindesstan, vol. 1. p. 95. It is called erroneously Bhedar in the Ayin-Acberi, vol. 2. p. 107,

[‡] Forster's Travels, vol. 2.

S According to the late Nabob MEHDI-ALI-KHAN, a native of Mesched. See Essay on the origin of Mecca, Asiatick Researches, vol. 5.

This the Maldbar Court they go to Mossindique; where they have agents, who generally relide there seven or eight years; and Sanant-reners to take notice of a merchant from the Malaber Court, at Astraction. From Surat and Gujarat, they go to Mustat and other trading places in Arabia, where Brahmins are to be found allo; acquiring to Niedune. Arran in this Periplus Tays, that the inhabit rants of the island of Dioscoridis (now Socotora,) confished of Arabi and Mindis, with a few Greeks, settled there on seconds of the trade to the dia. The famous Pan's runt told me, that when he was at Baharish on the Parsian Gulf, he was informed by the Hadias, whom he found settled there, that they used to go formuly to Egypt, where they had lift off going there for about two of three generations.

This shows, that there was between the Greeks, Romans, Carthaginians and the Hindus, a constant and reciprocal intercourse (which is by no means the case now) for a period of 1200 sease at least; and to which nothing, but she overgrowing power of the Muslemans, could that a stop. In visiting the sages of Babylonia and Egypt, the Hindus must have been greatly surprised, and their vanity humbled, when they heard them talk of their remote antiquity. Then, and not before, in my opinion, they resolved not to be behind hand with any of them; and certainly they have succeeded wonderfully. Neither the Greeks and Romans, nor the Turdetania Galic nation, though settled in Spain, according to Strabo, carried history, and the beginning of things.

[•] P. 333.

beyond a period of 6000 years, exactly like the Jess, and Hindu formerly, according to MEGASTHERES. The Gathic tribes entertained also the same notions, as appears from the cosmogony of Onemeus, who was a Goth.

The Hindus had the system of the Yugas long before; but this was not peculiar to them, for it prevailed all over the west, and Hesson, who lived between 900 and 1000 years before Christ, declares that the Cali-yuga as just beginning; and the Jainas affect that it began about that time. Though the Yugas are of a very great antiquity all over the world, yet the Hindus did not think of stretching their duration to such an enormous length, till a period comparatively modern; and the Yugas in the west were also the component of their grand. Calpa, which consisted equally of 12,000 years, but with this difference, that in the west these were considered as natural years, which is not the case in the east, at least now.

THE first time we heard, in the west, of this extravagant system of chronology, was about the middle of the ninth century; when we were informed by Abu-Mazar, a famous astronomer, who lived at the court of Al-Mamun at Balkh, that the Hindus reckoned from the slood or the beginning of the Cali-yuga, to the Hejra, 720,634,442,715 days, or 3725 years.

THERE is obviously a mistake, originating either with the transcriber or translator; but it may be easily rectified. There is exactly that

[.] See GESNER's notes on the fragments of ORPHEUS, also FABRICIES Cad. Pleudepigr.

number of years, from the beginning of the Cali-yuga to the Hejra: but that immense number of days are reckoned from the creation to the Cali-yuga, according to BRAHMA GUPTA's system. Mr. DAWIS, after reading this passage in my manuscript, kindly undertook to examine it more particularly, and I beg leave to refer to his learned note on the subject, in the appendix at the end of the essay on Vicrama'ditya and Salivahana.

Till that time, the extravagant numbers of the Hindus weteren known to the Greeks and Romans, with whom they kept up a constant intercourse. That the Hindus concealed the whole from them; is inadmissible: for it is natural to suppose, that they were timulty vain with the rest of mankind. We are well acquainted with the pictensiz ons of the Egyptians and Chaldeans to antiquity: and furely they did not take the trouble of inventing fables to conceal them. On Mic-contrary, MEGASTHENES, a man of no ordinary abilities, to who, had spent the greatest part of his life in India, in a public character, and was well acquainted with the chronological systems of the Egyptians, Chaldeans and Jews, made particular inquiries into their history, and declares, according to CLEMENS of Alexandria, that the Hindus and Texts were the only people, who had a true idea of the creation of the world, and the beginning of things: and we learn from him, that the history of the Hindus did not go back above 5042 years, from the invasion of India by ALEXANDER. Manuscripts differ; some have 5042, or 6042: others have 5402 years, and three months; for he calculated even the months; but the difference is immaterial in the present case.

As. Res. v. q. p. 242.

[†] See Asiatick Researches, vol. 5. p. 290,

This period of the Hindus was adopted afterwards by the Persians, or was common to both: and the latter reckoned, from the creation to the era of Melic-shah, in the year-1079 of Christ, 6,586 years; that is, they placed the creation 5507 years before Christ. It appears also from George of Trebizond, that the Persians reckoned, from the flood to the year of Christ 632, or era of Yezdejird, 3,735 years, for months; and twenty-three days, conformably to the ideas of Abu max. R: and this is again the period of the Cali-yuga of the Hindus. Brom-Alexander's entering India, to the same era of Melic-shap, there are 1408 years, which deducted from 6,586, there remains 5178; and this I believe was originally the true reading in Megas theres's account of India. Be this as it may, the difference, relatively speaking, is not very considerable, and is immaterial in the present cast.

The Persians called him a Pershé cara, handicraftman and tradesman. In the Calpa-druma-Calicá, a treatise of the Juinas, and in my possession, Sa'la-va'hana, called by the Hindus a Tacshaca, and said to be also the son of a Tacshaca, Tashtá or Twashti, is declared to have been a 'Sr'avaca or 'Sávaca, a tradesman': and in the western parts of India, as in Gurjar'át, all banyans and tradesmen are called 'Sávacas. The words' of the Calicá' are, "Sá'lava'hana Nama Rájá Jaina; Parama 'Srávaca-pati. The King called 'Sa'la-va'hana was a Jaina, and the lord and master of the Sr'avacas," or 'Sábacas, as more generally written and pronounced.

BAILLI'S Aftronom. Ind. p. 251.

. Even the name of Sa'li-vahan, Sa'liban, and Sa'lban, as he is called in the spoken dialects, seems to be of Persian and Arabic origin, as well as Peisheh-car, the name of his followers. Salsh, or Sulib fignifies a stake, a cross, a gibbet, the Roman Furca; like the Greek ETRUPPS, Sálib or Sálb figuifies elfo crucified, and in the plural form, it becomes Salub, and Salban. Ashab-al-Salib, means the Christians in Arabic, that is to say, the followers of the crucified. The best Sanscrit expression for this is Suliva, Sálava, or Salwa in a derivative form, and these are indifferently pronounced Salaba, or Saba, and in the plural number Sálabán, and Sálban. In the Cumár cá-c'han da, these 'Salavas, or 'Salbans, are mentioned, in the same page with SACA. or 'SA'LA-VA'HANA, and as existing at the time this Puran'a was written. The copy of that section of the Scanda-purán'a in my possession; was written about 230 years ago in Gurjar'at: and the writer or trafscriber, well knowing, that Savaca was a title of 'SACA, or 'SA'LE A'HANA, wrote first Savaca, instead of Saca; but recollecting himself, and finding that there was a redundant fyllable in the verse, he drew two small strokes with the pen across the middle syllable, showing, that it was to be left out, and the whole word to be read 'Saca. In the Lucknow copies of this section, no mention is made of Saca, and the whole verse is omitted.

The copies from Chitra-cùta, have the whole verse; but the name of Saca is variously written, sometimes Sacra, Sraca, &c. These readings are obviously erroneous. There were no other copies of that section at Benares but those procured from Chitra-cùta, and Lucknow, will I was lately presented with a neat copy, 230 years old, from Guja-

r'dt, by a Pandit of that country. The Lucknow copies are tolerably accurate, but those from Chitra-cu'ta are miserably mangled, through the carelessness of transcribers. The passage relating to Saca, is in the following words. Tatah trishu sahasréshu 'sate chápyadhicéshu cha; 'Sacó nama bhavishyas'cha yótidáridra háracah: and whether we read 'Saca or Savaca, it points to the same individual.

The isea that Sa'eiva'hana was borne on a tree, cross, or furca; they migh, have borrowed from the Manicheans, who represented Christ stretched upon a tree. Váhana, báhana, and váha or báha, are nouns derived from the verb vah, veho, to carry; and used both in in active and passive sense. Thus Havya-váhana is one of the titles of Agni, or sire. Indra is called Mégha-váhana, or the cloud borne; Gand'ha-váha is the wind, from its being the vehicle of persismes. The clouds loaded with water are called Vári-váha. Thus Sál-bah, Hál-bah, Sal-báhana, &c. may signify either, he who carries his cross, or who was borne, or exalted upon the cross. Cruciser is one of the titles of Christ, persectly answering to Sála-báha.

THE Hindus are very fond of forms, or emanations, which they confider to be the same with the original, from which those emanations sprang: and disciples are very often considered as so many forms of their masters. It is then very possible, that they should have considered the Apostle and disciple, who first preached the Gospel in *India*, as a form of Christ, or as Christ himself, after several centuries had elapsed: and thus possibly have mistaken the year of the death of the form, or disciple,

for that of his principal. Now some of the Apostles lived to a great age; St. Thomas, for instance, is supposed to have lived seventy-three years, and to have suffered martyrdom about the seventy-fourth or seventy-sistence years of the Christian Era.

The year of the death of Vicramarca, and that of the manifellation of Sa'l-Ba'han, are acknowledged to be but one and the same: and they are obviously so. According to the Cumarica-c'b straa, that remarkable year was the 3 roist of the Cali yuga, and the stirst of the Christian Era, thus coinciding also with the Samaritan text, which is a remarkable circumstance.

Some learned *Pandiss*, from the western parts of *India*, are of or nion, that the era of VICRAMA'DITYA was originally reckoned from the first year of his reign, in the year 3044; and that, after a reign of sifty-six years, his death happened in the year 3101.

This was certainly the opinion of the author of the Cumaricác'han'da, and of the Pandits who affisted Abul Fazil, who says, in his summary of the history of the Kings of Málava, that Vicrama'ditya's era began the sirst year of his reign; and this makes this legend more consistent and probable.

In the Vithat-Cathá, 'Sa'll-Va'hana is called Nri-sinha, or the manlion, answering to the lion of the tribe of Juda; and one of the forms of Buddha is called Nit sinha, both by the Pauranies, and the Baudd'has. 'Salli sinha, or the energetic lion, is also the name of 'Sa'llva'- HANA in the appendix to the Agni-purán'a. According to the Vithat-cat'ha, Vicrama'ditya marched, from his capital city Pátalí putra, or Patna, to wage war against Nr.I-sinha King of Pratisht'hana.

VI. The cross, though not an object of worship among the Baudd'has, is a favourite emblem and device with them. It is exactly the cross of the Manicheans, with leaves and slowers springing from it, and placed appoint mount Calvary, as among the Roman Catholics. They represent it various was s, but the shaft with the cross bar, and the Calvary remain the same. The tree of life and knowledge, or the Jambu tree, in their maps of the world, is always represented in the shape of a Manichean cross, eighty-four Yojanas (answering to the eighty-four years of the life of him who was exalted upon the cross) or 423 miles high, including the three steps of the Calvary.

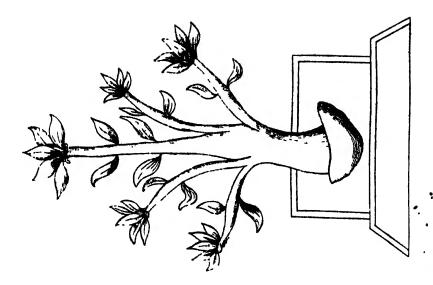
This cross, putting forth leaves and flowers, (and fruit also, as I am told) is called the divine tree, the tree of the gods, the tree of life and knowledge, and productive of whatever is good and desirable, and is placed in the terrestrial Paradise. Agarius, according to Photius*, maintained, that this divine tree, in Paradise, was Christ himself. In their delineations of the heavens, the globe of the earth is filled up with this cross and its Calvary. The divines of Tibet place it to the S. W. of Meru, towards the source of the Ganges. The Manicheans always represented Christ crucified upon a tree among the soliage. The Christians of India, and of St. Thomas, though they did not ad-

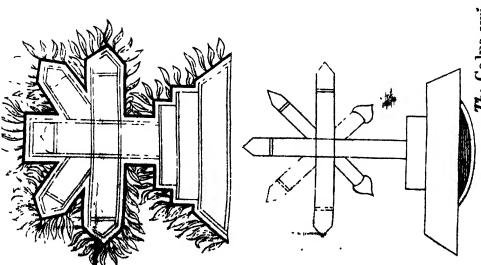
[.] Phot. Biblioth p. 403.

mit of images, still entertained the greatest veneration for the cross. They placed it on a Calvary, in public places, and at the meeting of cross roads; and it is said, that even the heathen Hindus in these parts, paid also great regard to it. I have annexed the drawings of two crosses, from a book entitled the Cshetra-samása, lately given to me by a learned Baudd'ha, who is visiting the holy places in the countries-bordering upon the Ganges. There are various representations of this mystical symbol, which my friend the Jati, could not a splain to me; but says, that the shaft, and the two arms of the cross, remain invariably the same, and that the Calvary is sometimes omitted. It becomes then a cross, with sour points, sometimes altered into a cross cramponné, as used in heraklry.

In the second signer, there are two instruments depicted, the meaning of which my learner strend, the Jail, could not explain. Neither did he know, what they were intended to represent: but, says he, they look like two spears; and indeed they look very much like the spear and reed, often represented with the cross. The third signer represents the same tree, but somewhat nearer to its natural shape. When it is represented as a trunk without branches, as in Japan, it is then said to be the seat of the supreme One. When two arms are added, as in our cross, the Trimurti is said to be seated there. When with five branches, the sive Sugats, or grand forms of Budd'ha, are said to reside upon them. Be this as it may, I cannot believe the resemblance of this cross and Calvary, with the sign of our redemption, to be merely accidental. I have written this account of the progress of the Christian religion in India, with the impartiality of an historian,

Plate 2.





The Calpa-vrieshy of the Baudelhas which is the same with the Cross of the Manicheans

fully perfunded, that our holy religion campot politily, receive any additional luftre from it.

The word Michha in Sanscrit, does not fignify literally a foreigners' but it is generally understood in that sense by the Pauranies, when are nouncing, in a prophetical style, the different powers who were to rule over India. Hear now, says the author of the Vishna-parana, hear now, what will come to pass in these times: powerful Kings among this Aryya-Miechhas will appear; they will subvert the reigning religion, spoil and deceive the Prajás, or the people.

In the Bhagavata, they are called Abrahmavarchasah in the plural, and Abrahmavarchah in the fingular; because, as they understood not the fundamental tenets of their own religion, through their spiritual blindness, and the hardness of their hearts, they gave it up to embrace a new one.

In the Brahman'da we read, then will come the Aryya-Miech'has, who will seduce the people; they will be proud, and at the same time distrustful, as if constantly alarmed.

In the Vayu-purane, it is declared, that generations of Kings will rise, and set like the sun. Then will come the Aryya-Michina, who will, for sake the D'harma, religious creed, Carma worship, Tirtha the algora of pilgrimage of their ancestors; they will seduce the people with their new doctrine, and will grow worse and worse every day. After them Sarva Michina, all series of foreign, and impure tribes, will overvie the country.

rijam, and Abraiam, as well as their Apossle, even as low as there times of M. Polo in the 19th century. From Abaryyam, the Pauranics probably made A-Brabma, in order to shew their contempt of them, but more particularly in the latter times, when they grew worse and worse; and M. Polo speaks of some of the Abraiam, or Abramiam, nearly in the same terms. Yet in his time the denomination of Avariam, in Sanscrit Avaryyam, and Abaryyam, was applied to them: and he was told that it signified good and pious men.

"I HAD, for a long time past, particularly inquired from the Baudd'has whether they knew any thing of the wars of Budd'ha with TeveTAT: but I was always answered in the negative. It was my fault in force measure; I did not make use of the other synonymous names of that enemy of the religion of Budd'ha. I mentioned before, that I supposed, that Tevetat was a corruption from De'va-Tashta, synonymous with De'va-Twasht'a', or De'va-Silps, the divine artist, or carpenter; who is more generally known under the name of Visva-carma, or the universal artist. Under this last appellation, Te'veta't is known to them. Soon after a learned Jati presented me with a book called the Budd'ha charitra, with leave to take a copy, in which the wars of Budd'ha, with Vis'va-carma, or De'va-Twasht'a' are related. It is a most voluminous work, and still it is incomplete, and the seat of war was in India.

of Budd'ha's kiniman and rival is DE'VADATTA (aniwering to Deceases). It is probable, that LAROUBERE'S Tevetat is a corruption of the name of DE'VADATTA. H. T. C.

ESSAY YI

PART I.-CHÁPTER I.

Of the two Tri-Cu't' A'D'r or Mountains with three Peaks; one in the N. W. and the other in the S. E. quarters of the Old Continent.

I. Tar. Cu't'A'par, the mountain (Adri) with three peaks (Tri-Cu'ta,) answers to Thireputes, and Thirespies in Greek: for in that language saper figurifies properly a peak, fumprit, and implicitly a headland, or promontory, Poly Enus calls Mount. Meru or Meras, Tri-coryphus: it is true, that he bestows improperly that epithet on Mount Meru near Cabul, which is inadmissible. Meru, with its three peaks on the summit, and its seven steps, includes and encompasses really the whole world, according to the notions of the Hindus, and other nations, previously to their being acquainted with the globular-shape of the earth. I mentioned in the first part, that the Jews were acquainted with the seven stages, Zones or Dwsparos the Hindus: but I have fince discovered a curious passage from the Zohar-Manasse on the creation, as cited by Basnage in his history of the Zewar" "There are," fays the author, "feven earths, whereof one is higher than the other; for the holy-land is fituated upon the highest earth," and Mount Morish (or Meru) is in the middle of that holy land. This is the hill of Gon, so often mentioned in the 'old Tellament, the mount of the congregation,

[.] See English Translation, p. 247.

where the mighty King sits in the sides of the north, according to Isalah, and there is the city of our God. The Méru of the Hindus has the name of Sabhá or the congregation, and the gods are seated upon it in the sides of the north. There is the holy city of Brahmá-puri, where resides Brahma' with his court, in the most pure and holy land of Ilávratta.

Thus Mêru is the wordly temple of the supreme being, in an embodied state, and of the Tri-Mu'rrati or sacred Triad, which resides on its summit, either in a single, or three-fold temple, or rather in both: for it is all one, as they are one and three. They are three, only with regard to men involved in the gloom of worldly illusion: but to men, who have emerged out of it, they are but one: and their three-fold temple, and mountain with its three peaks, become one equally. Mythologists in the west called the world, or Mêru with his appendages, the temple of God, according to Macrobius.

HENCE this most sacred temple of the supreme being, is generally typished by a cone or pyramid, with either a single chapel on its summit, or with three; either with, or without steps.

This worldly temple is also considered, by the followers of Bub-D'HA, as the tomb of the son of the spirit of heaven, whom I conceive to be the first man, re-emerging in every Calpa, or the first lawgiver, often consounded with the first man. His bones, or limbs, were scat-

[·] TRAIAH C. 14, v. 13, pfalm 48, &c,

tesed ith over the face of the earth, like those of Geta 15, and Juri-Tea Zagarus. To collect them was the first duty of his descendants and followers, and then to entomb them. Out of filial piety, the remembrance of this mouraful search was yearly kept up, by a fictitious one, with all possible marks of grief and sorrow, till a priest came and announced, that the secred relies were at last found. This is practised to this day by several Tarterian tribes of the religion of Budd'ha; and the expression of the bones of the son of the spirit of heaven is peculiar to the Chinese, and some tribes in Tartery.

THE Baudd'hists in this country are so close, referved and ignorant, in general, that hardly any information can be obtained on this fubject. Besides, they acknowledge, that it is so awful a theme, that they really avoid to make it the subject of conversation. They confess, that the pyramids, in which the facred relics are deposited, be their shape what it will, are an imitation of the worldly temple of the furteme being, and which is really the tomb of the first of his embodied forms; or of his son, in the language of the Chinese, Tartars and of the Greeks also, who were little acquainted with the system of emmations, and incarnations. They also declare, that many of these pyramids do not really contain the bones of the Thacur, or Lord: and though they are to be supposed, and afferted to contain them, the real place, where they are deposited, should remain unknown; in order to prevent profunction; exactly like the various tombs of Ostris. For this reason, the facred relies, inflead of being deposited in the pyramid, are always placed in a small vault deep under ground, at some distance from it, as at Sarndtha near Benares.

This monument is about fifty feet high, of a cylindrical forms. with its top shaped like a dome. Similar monuments, but never more than three or four feet high, are often erected, by Hindus, upon the spot, where a married woman burned herself with her husband. These monuments are in general called Sati; and the enormous one at Sarnath is a fort of Sati over the bones of Budd'ha. According to tradition, it was erected over the ashes of those, who fell there in battle, in the invasion of the Muslemans. But this is impossible; as this monument is the chief and principal piece of that facred fabric, which was begun many years before the said invasion. The only part that was finished is the tomb of Budd'HA: all the others, which were intended for the splendor of the place, and the convenience of the royal inhabitants, and priefts, remaining in an unfinished state. The secret vault, into which these relics are deposited, in general, is called the Thicur's Cúli, the room, or cell of the Lord; and in the infoription found amongst the ruins above this cell, it is declared that ST'HIRAPA', LA and VASANTA, sons of a King of Gaur in Bengal, built this Cûti. It follows from hence, that these were the persons, who deposited there the Thacur's bones. In the above inscription it is declared, that this happened in the year of VICRAMA'DITYA. 1083, or of our lord either 1017 or 1027,* In the inscription found at Islamabad, these relics, confisting of a few bones, are said to have been deposited in two brass vessels in a Cúti, or room under ground. In the account of the disco-

[•] As. Res 1. 5. p. 133.

t As, Res. v. 2.

very of two urns at Sarnathe, it is mentioned that the Cuti was eighteen cubits or twenty-feven feet; under ground.* There the relics were depofited, in an utn, enclosed in a vessel of marble, in the shape, and of the fize of the famous. Barberini monument. There were a few bones only, with various trinkets, which confided of pieces of coloured glas, all of them perforated, with thin leaves of gold, and some coarse pearls. These ornaments are by no means a proof that these bones were those of a female. It is more probable, that they formed a chaplet used by devout people, or rolaries and bracelets, with which the statues of Bun-D'HA are generally decorated. The marble vessel, which contained the urn, is more highly finished than that of the Barberini monument. The urn itself is of a more elegant form than that in the above monument. It is in the shape and of the size of a chalice; it has no carved figures, but elegant mouldings, exquisitely finished, and is of green marble. I suspect the whole to be of foreign workmanship: for it is totally different, both in shape and workmanship, from vales in use among the Hindus, either at this day or in former times. Philos-TRATUS informs us, that statues, by Grecian artists, were by no means uncommon in the N. W. parts of India. STRABO fays also, that altars of Grecian workmanship were often found in the western parts of India; and ARRIAN, in his Periplus, takes notice of altars, and of small temples in the Grecian talke, near Barygaza or Baroach. The practice of thus preserving the bones of Budd'ha is of great antiquity; for it is expressly mentioned by CLEMENS of Alexandria, who says that they

⁴ As. Res. vol. v. p. 131.

were deposited under a pyramid. In the history of China, we read, that in the year 335, a bone of Fo was sent from India to the Emperor of that country, who was highly pleased with this precious relic: though his minister Hanyu made a very spirited remonstrance against this innovation; and which is to be found in Du Halde's China.

The followers of Brahma' are not addicted to the worship of dead men's bones, and I know but one instance to the contrary. At Jagannát'ha they have a bone of Crishna, which is considered as a most precious and venerable relic; so much so that sew people are allowed to see it: and Hindus are not fond of making it the subject of conversation, any more than the Baudd'has.

The shape of these monuments is always, either that of a pyramid, or of a cone, with some trisling deviations occasionally. Thus, the cone assumes the shape of a trump-roof: sometimes it is formed by the revolution of a cymatium, or Ogive round an axis: and these two forms are generally said to be in the shape of a bell. Mount Meru, and the seven stories, are represented in the shape of a trump, by the divines of Ceylon, according to Mr. Joinville's delineation in the seventh volume of the Asiatick Researches. The pyramid is equally subject to the same variations, the hips, or angles being sometimes in the shape of a cymatium. As Mount Méru is also represented of a cylindrical form, the tombs of the Thácur are equally made in that shape, as that of Sárnátha. Sacrisces and offerings are never made in Tibet, without placing before the devotees a cone or pyramid, the image of Méru and of the worldly Linga. Bráhmens, instead of either, make a cylinder

of earth, and for the same purpose. This they call the primeval Linga; which was represented in the west, and to this day in the Dokhin, by a cone, according to Arnorros and other authors.

THE steps, stories, and retreats are always omitted in India: but I was told, that it was confidered as immaterial. The feven stories, however, are marked by lines, in a delineation of the worldly temple and tomb of Budd'ha, in a large map of the world accompanying the Cshetra-samása, a geographical treatife in my possession. This representation of the mountain of God struck me forcibly, and was the occasion of further inquiries into this subject. It is of the fame shape with the pyramids of Egypt: the base only is a little shorter, with a small flat top, with a chapel in honor of Bub-D'HA. The sides are smooth, as in the pyramids, but the seven stories are represented by lines; which brings it still nearer to the tower of Babel. The pyramids of Egypt are not all alike: some are in the shape of a cone; one with recesses is mentioned by D2 Non; who notices also another with a circular base. The square base of this worldly temple is peculiar to the Baudd'hists of Tibet: for in India the Brahmens, and the Jainas, always give it a circular form. In the representation of it in the Csbetra-samasa, it is a square. Though the dimensions are much neglected, yet in all these monuments at Benares, the most modern, and of course most perfect, are of a conical figure; the perpendicular section of which, through the center, is an equilateral triangle. There is always a finall temple on the fummit, except one near Benans, at a place called Canow'y. Such of these monutments as belong to the Bauddhas are called the temples of Buddhas; they might also be called the temples of Bala or Balas, one of the titles of Buddha; but little known now, and more particularly so to the vulgar. The word Balas, properly pronounced, sounds exactly like Belos in Greek, and Belus in Latin. May we not then reasonably suppose, that the temple and tomb of Belus at Babylon, was precisely a similar monument; and calculated for the very same purpose.

On the summit of it was a chapel, dedicated to Belus, according to Herodotus. Diodorus the Sicilian says there were three; but this is immaterial: for BALAS is three and one. Besides, the temple of HERODOTUS probably confifted of three chapels. About the center of the tower, in the middle, was the tomb of BALAS, and near it, in the body of the pyramid also, another chapel, exactly as in the great pyramid at Giza in Egypt. It is, probable however, that the bones, of Belus were not deposited in the ostensible tomb, but were concealed, in a secret vault, in some other part of the pyramid or tower. It appears then, that the pyramids were fimilar fabrics, and intended for the very same purpose. For the Egyptians, the Phenicians likewise, had their Bz-LUS, as well as the Babylonians and Hindus: and this Belus, it is probable, was orginally the same through these different countries. In the eastern parts of Bengal, particularly toward the Sunderbunds, there is, almost in every village, a representation of this worldly temple, of earth with sleps. The whole is neatly plasfered, with a whitish clay: and, on stated festivals, the statue of some favourite deity is placed on the summi, in a small, but handsome portable temple. Some of these sabrics are from five to twenty feet high; according to the circumstances and zeal of the villagers. These are considered as a representation of mount Miru; and, in the inscription of Sarnath, the conical mount, near the sacred repository, is called Miru.

LIKE all the temples and tombs of Breus in India, the pyramids had no opening whatever, except one or two. It is however pretty certain, that all the pyramids were not intended for the reception of the bones of Belus. Many were probably intended for the burial of a very few exalted and facred characters, like the grand Lamas of Tibet, with a few others, who are always buried under pyramids: but these are acknowledged to be forms of Budd'HA, though of an inferior rank. As the Egyptians concealed, most carefully, the real place, where their Belus was entombed; it is not unlikely that the great pyramid was only an oftensible one, and of course allowed to remain open. For we are told, that the body of him, for whom it was intended, never was deposited there, or if deposited, it was not into the ostensible temb, but into some fecret place under the pyramid. The limbs of Osinis were buried feparately, and on the very spot where Isis found them: and he was torn into fourteen pieces; others faid fix and twenty. The general opinion is, that Is1s collected all the limbs in a coffin, like which she made many others, and presented them to several cities through Egypt; assuring privately every one, that they peffessed the real one. It is supposed, that Osiris was entombed near Memphis, though the spot never was known.

THE tower of Babel feems then to have been the worldly temple of

the spirit of heaven, and the tomb of his son, either the first man of the Calpa, or the most ancient king and legislator of the country.

THERE were four Adams, and four Budd'has also; and we are now under the fourth, according to the traditions of the Muslemans, and of the Baudd'has. Adam's body was, at his own request, entombed, in a cave or vault, called Alconuz, in a mountain in the center of the world; and of course the Méru of the Hindus, and represented by artificial hills, either of stone or earth, and of various shapes, like Méru.

His descendants removed to that holy mountain; the wicked offspring of Cain were allowed only to dwell at the foot of it: whilst that of Seth were seated higher up, as far as the top; where they lived in great sanctity, and purity of manners, every day worshipping God on the summit of the mountain, and visiting the body of Adam in his vault, as the means of procuring the divine blessing.* This mountain, in the center of the earth, with seven steps or stories, or mount Méru, was really the mountain of God, the worldly temple of the spirit of heaven, and the tomb of his son. Cointus of Smyrna, says; that this holy mountain was depicted upon the shield of Achilles; and that on its summit restided the efficacy or Sasti of the world, or of the supreme being, towering to the skies: and he adds, that this most sacred place was very difficult of access.

THE limbs, or bones, of this son of the spirit of heaven, Puencu in Chinese, Budd'ha, Osiris, Dionysius or Adam, were dispersed all over

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the world. An an's remains, after the flood, were divided among his posterity, and his scall' fell to the share of Shem, who deposited it in a vault on mount Calvary, near the holy hill of Morian or Morch. The inhabitants of Ceylon-showed formerly one of his teeth; and they have now one of his tulks: for their last ADAM, or BUDD'HA, was incarnate in the shape of an elephant; and alcended-into heaven, from the fummit of the peak of Adam, Muslemans, who were fettled in the Peninsula, and in that island, at a very early period, concluded, and not without some plaufible, ground, that this Budd'HA mult.have been ADAM: and accordingly, Persian writers gravely inform us, that ADAM was banished to Ceylon, and thence translated into heaven, from the summit of the peak, which was denominated after him. ZARADES, ZOROADES OF ZARAT was the name given, by the Chaldeans, to the eldest Zoroaster, claimed equally by the Persians. Some fay that BELUS taught the Chaldeans astronomy, whilst others insist, that it was ZARADES or ZOROASTER, whom Teveral learned men confider as the Jame with MIZRAIM, the fon of HAM. Be this as it may, the eldest ZERADES was the son of OROMAzzs, the spirit of heaven, according to Suzpas. Like ADAM, he directed that his bones should be carefully preserved: his precepts for a long time were complied with; and his relics, carefully and fecretly ensorits. ed, like those of BALA or BUDD'HA, like the limbs of 'Osikis, and like those of BACCHUS at Delphi; became an object of worship. The eldest ZOROASTER, called ZARADES, ZOROADES and ZARATES by the Childeans, is probably the same with Belus and the SAURID of Arabian writers: and the Goddess ZARETIS was probably his consort. Several learned oriental writers infift that ZOROADES, or ZOROASTER affifted at the building of the tower of Babel; and that he is the same with a Zohac or Nimron, and that under the name of Saurin he built that great pyramid in Egypt. The Parsis in India say, that he was a native of China; but I suppose that they originally meant Baitria, seemingly the native country of the Chinas, according to the Purantas, and the earliest Persian and Arabian authors, who say that formerly the country about Samarcand was called Chinistan, and its inhabitants Chinas.

II. The three peaks of Mêru are, one of gold, the other of filver, and the third of iron, stone or earth, which is considered as the same: Thus, the iron age is generally called the age of stone or earth in India. In the west, mankind was produced from stones, thrown by Deucalion and Pyrrha behind their backs, in the beginning of the iron age; and from them sprang the present stony or stone-hearted race.

In consequence of this, some powerful princes are declared, in the Purán'as, and other books, to have erected three mountains, of gold, silver and stone; or three pyramids or conical hills, like the three peaks of Méru, though the materials, they were built with, were only stone or clay. Poly knus has given us the names of these three peaks, Menon, Candaské and Corasibé; which, however distorted, and disfigured, may be still traced back to their original standard, For this purpose let us suppose, that a traveller asked a Hindusthe names of these three peaks, the Hindu probably answered Mana, Cun'tháchya, Cailásópi, or literally in English, Mana, Cun'thá thus called, Cailas also. The first peak, it is:

[•] D'HERBELOT'S Biblioth, Orient, voce Tarikh and Tabari, Sir W. Queelev's Translat.

of Ebn Haucal in the Appendix.

true, is not known under that name; but it is described as such and this appears to be its real name. Upon it BRAHMA' relides, and his featers called Brahma.puri, or the town of BRAHM t': it is also Mana puri the town of Mana, or of his heart, or the delight of his heart, now that far mods lake of Mana or Manasa, the waters of which, proceeding from heaven, are the delight of his heart likewife. They are otherwife faid to proceed from his heart, and indeed overy thing there is from his heart, The obvious meaning of Mains is mind (mens,) but it is always rendered here heart, because the mind proceeds from the heart, according to the Hindus, who even are able to trace its track through the body to the head. The radical name of V4i-Cun'tha is Cun'tha an idiot. The name of VISHNU's mother in one of his incatnations; during the fifth, Manuantara, was Cun'r'na' or the idiot; and as the was very much so, the was called VI Cun'T'HA', VISHNU, fince that time, is furnamed VAI-CUN'T'HA: and after him, the peak on which he resides is denominated likewise. In .- Carlasopi, and figurates also. This Tri-cartadri, or mountain with three furnmets, is declared to be the lord of mountains; and of courfethe other Tri-coryphean hills, for there are many, are confidered as infetible to it. The next in rank is the three-peak and in the 'N. W., jem. blically called the Whire illand; the whole of the Moon; a colesies earth or region, a servestrial shaven or paradises

The peninsula of Málácá, Sumátrá and Ceylon: These two Tri-cu tadris are declared to correspond to each other, in their respective quarters, and their Téja, Cirnna, or splendor, are the constant theme of the Pau-rénice, and other Hindu writers. These two Tri-cutas, or three-peak-

dands may probably be the two islands of Corne, call and well, of the When speaking in general-terms, the Pauránics Cometimes splace them, one in the cast, and the other in the west. But numerous and explicit passages show, that they are situated in the N. W. and S. E. quarters of the old continent. There are however some sew passages, which place them north and fouth of Meru; and Lanca is now confidered as situated on the equator, exactly to the south of Ujjayint, Meru, and opposite to the island of the moon. The last, assigned situation was the first I hit upon, on my first acquaintance with the Purawas, and perplexed me very much; as the Pandits, I was acquainted with, infifted that the WHITE illand, one of the peaks of the western Triculta, was in the N. W. quarter, that is to fay, it occupied the whole space between the N. W. and N. points: and that likewise the eastern Iri-citta dri was between the S. and S. E. points, "Unfortunately, they could not then produce the necessary vouchers from their sacred books; but in the mean time, they exhibited the accompanying map of Jambu, in order to illustrate the subject:

In the plate, the map of Jambu is represented under three different projections. The first is according to the ideas of the Pauránics, in which one half of the equator is obviously combined with another half of the meridian, on the plain of which the map is projected. I have marked the degrees of longitude upon the equator, and the degrees of latitude north, upon an arch of the first meridian. No notice is ever taken of these particulars by the Pauránics; but a little reflection will

flow the original defige of this diagram, though the projection be ever fo diafigured.

The true projection of it should be in the shape of what the ancients called the bottom part of a sling: and this was admitted by Dionysius Prairestes. Positionius before him admitted of it also: but he instited, that the greatest length of this projection was in a north and south direction. This fore of projection is represented in the third number of the same plates. Number IL: represents the same portion of the globe, that is to say the northern part of the old continent, as projected in the usual form; upon the plain of the sixtemeridian.

In the first and second numbers, the two Tri-catadris, or islands, abounding with Girn's or respleadence, are represented diametrically opposite, with all due symmetrical arrangement in every part, to which the Hindus will always sacrifice truths. There are, however, some general outlines, which are shiftly true. There are really three islands, or dwiffs in the fouth east, and as many in the north west quarter of the old continent, corresponding exactly, or nearly so, to each other; and they have also the same names. The rest of the superstructure owes its origin, to the sertile and inventive gamins of the superstructure owes its origin, to the sertile and inventive gamins of the Hindus. The idea however is by no means a modern one; nor was it consider to India: for ancient writers in the west acknowledged two islands, called Cerne, one in the east, and the other in the west: the latter, called also Cyrene, was placed near the straits of Hércules; and was said to consist equally of

[·] Physilit.

three islands. The eastern Cerne, it is true was said to be near the eastern shores of Africa. This mistaken notion arose, through the information of the Hindus, who will have it that the dwipa of Lanca really joins the shores of Sancha, Zeng or Africa. The Nubian geographer adopted this idea, as well as Arabian writers in general.

THE Gods are represented as travelling from one Tri-cúta to the other; and the grand depot for souls after death, is at Yama-puri, in the Peninsula of Malacá; from which, on certain days fixed for that purpose, they set off together for D'harma-puri in the north woll, which they reach after a painful march of twelve months.

These three islands in the south east, are in general called Lanca; and in every one of them is supposed to be a city called a Lanca puri, and there is actually a place of that name in Sumatra, according to Mr. Marsden. The walls of these three cities are of the same metal with the soil of their respective islands: of course the walls and palaces of Lanca puri in the Gold-Island, are of that metal: and of silver in the Silver-Island. In the island of iron, brass, stone or clay, the walls are of these materials: but more generally they are said to be either of iron or brass. The Gold Island, or Suvarn'a, is also called Maha-Lancá and Má-Lancá; from which is probably derived its modern name of Málacá; which is also called Malachya'in the Devi purán'a.

THESE islands were well known to the ancients, under the appellations of Chryse, Argyrea, and Taprobané. That of Taprobané, though generally understood of Coylon, was also extended to the three islands; for

STEPHANUS Of Byzantium says, that Argyrea, the Silver Island or Sumatra, made part of Taprobané and very properly too: for Taprobané is obviously derived from the Hindi Tapu-Ravana, the island, or islands of Ravana, who was the lord of them, and whose name, in the spoken dialects, particularly in the Delvin, is always pronounced Raban. Their Sanscrit names are Canchana or the Gold Island: Rajata the silver one, and Simhala is Ceylon. On the latter the epithet of Iron Island is pever bestowed in any book which I have seen: but it is understood as a matter of course: it was called also the brass country by Prolemy, though strangely misplaced by him.

FROM various documents, through different channels, he has introduced twice in his map of that country, this Tri-cútádri, first as three islands or Peninsulas, and also as three countries on the mainland, under the names of gold, silver and brass countries. Mr. Danville has proved, that the Peninsula of Malacá, with most of the places belonging to it, are twice repeated, and made contiguous by him,

In the Gold Island, or Má-Lanca, is the abode of Yama, called Yama-puri, or in the spoken dialects Jam-cote, a place well known to Arabian and Persian writers. It is also called Lanca-puri, Lanca-nagara, the town of Lanca; and the straits of Málaca are called, in the Purantage Lanca-dwara, or the gates of Lanca; as we shall see in the course of this work. Canca is another name of Yama or Pluto; and as the place of his abode is in Málanca, according to the Purantas, the Lanca-dwara

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[.] Scanna-purange loftion of TAPIEC'HAND'A.

priety the gates of Canca, Pruto or Canca-dwara. This denomination is never used now by the Pauranies; but there is no doubt; that it was so formerly: for the Cancador of Ali-Coshgi, and other early Musleman writers, is obviously derived from Canca-dwara, Canda's door or gate. It is true, that they make a town of it, which they call also more correctly Cancador for Canca-nagra, which last is acknowledged to be the same with Canca-nagara, the town of Canca: and in the Dekhin they always say nur or nuru, instead of nagar. This town is obviously the same, which is called Cocco-nagara or Conco-nagara by Prolemy. The country of Canca is Cancades's in Sanscrit; hence Musleman writers call it also Gung-diz.

Cancapuri or Canca magara is then the same with Yama-puri or Juncate, called also in the Purán'as Maha-Lancá-puri, or Má-Lancá: and it isprobably the same with that called Balanca by Prolemy, and placed by him in Long. 162° and in 40 40' Lat. North. It appears however, that Musleman writers understood by it the town of Saba, or Zaba: for Yama-puri or Jam-cote is a mythological city and never existed.

WE observed before that Prolemy has introduced into his map the golden country, island or peninsula, not only twice; but that he has likewise introduced twice, most of the places belonging to that country. Accordingly Conco-nagara is again noticed under the name of Coccordingara, or Cocconagara; from which Musleman writers have made Calvacor for Canca-rai-ghur, the house or place of abode of Canca-rai-ghur, the house of abode of Canca-rai-ghu

they call also Canacar, which is some place in the Gangetic provinces: but I have shown before, that Canacar or Cancar was the capital city of the country of Gancar deha, or of the Gangaridæ in Bengal.

Jum-cote or Lancá-puri, which D'HERBELOT writes Giamcout, they place, with the Hindus, in the center of the Peninsula, in five degrees of Lat. North, and in Long. 176 or 175, according to ABUL FAZIL and others; and PTOLEMY places Balonca, or Má-Lanca-puri in Lat. 40 40' North, and in Long. 162. The longitude of Lanca or Ma-Lanca may be ascertained from the Purán'as; a circumstance very unusual. puri is declared in these sacred books to be the general rendezvous of the departed from all parts of the world, and from which they proceed in a body, with a proper guard, composed of the servants of YAMA, to D'harma-puri, which I shall show hereaster to be the purgatory of Sr. PATRICK in Hiran'ya or Suvain'eya, the gold island in the west. The days and distances are accurately described, which summed up amount to 81,554 Yojanas.* The breadth of the world is 100,000 Yojanas, equal to 1800 of longitude: and these 81,554 Yojanas answer of course to 1460 48', which subtracted from 180 degrees, leave 33; the half of which 160 30' is the longitude of Dharma-puri, and added to 1460 go' will place Má-Lancd or Jum-cote in long. 1629, 20', 1 For these two places are at the furthermost extremities of the earth, which forms a perfect circle, surrounded by a sea, every where of the same breadth. This fingular route of the departed will be the fubject of a separate paragraph. It passes through India, in the direction of the first range of

^{*} Gantes'a Puranta.

fnowy mountains. The Pandus, whom ABUL-FAZIL confulted, placed Cancador 1265 Yojanas from Lancá, or the peak of ADAM, which is in 900 of longitude, according to them. Yama-puri is accordingly 12052 Yojanas from Lancá; some reckon 1242, which will place, Yama-puri in long. 1780 22'.

THE commentator on the Súrya-Sidd'hánta, has reduced that distance very much; for he says that Lancá, or the three islands, occupy a space of go degrees along the equator; and this will bring their assumed longitude of the easternmost shores of Má-Lancá nearer to its real one.

As Ptolemy places Má-Lancá-puri in the same longitude with the Pauranics, he must have used the same data, and which he had probably received from the Hindus whom he conversed with at Alexandria. Má Lancá being, according to the Puránics, in the center of the Peninsula, it must be of course in about five degrees of Latitude North; and there it is placed by Abul-Fazil: and in 40 20 by Ptolemy. Má Lancá is called in the Puránás Yamala and Malaya; which last denomination it still retains. It is styled also Canchana-pdda, or with the golden skirts. It may be translated the country of the golden seet, a title assumed by the Emperors of Ava, and other Kings of that part of the world: and the Malayan breeze is as samous in the east, as the Sabana in the west: wad its capital was also called Saba, or Zaba.

In the beginning of the Brahmánda-purán'a, it is declared, that the strong hold of YAMA in Tri-cúta, that is to say the Peninsula of Màlata, is 100 Yójanas long, and 30 broad, which is sufficiently accurate.

PTOLEMY mentions there a place called Malaiou-colon, probably from the Sanscrit Malaya-cúlam, which implies a place on the borders or shores of Malaya: the same is called Maletur by Marco-Polo; Malaya-tír and Malaya-cúlam are synonymous. Peri-mula in Ptolemy, I suppose to be derived from the Sanscrit Pari-Malaya, which implies the same thing. For it is probable, that they were acquainted only with the tíram, tír or culam of the Peninsula: and Canchana-pada may also signify the soot, skirts of the golden mountain, or Peninsula.

The next island is Sumatra, called in the Pura'n'as Rajata, or silver island, the Argyre of the western geographers. In the Vrihat-catha it is called Naircela or Nalioera and Srimat, or the fortunate, and synonymous with Srimatra.

THAT famous island is called now Sumatra, and by former European travellers Symotta. In the same book, and in the Hitopades'a, it is called Carpura, or camphire island. In the spoken dislects, that word is pronounced Carpur and Carfur. Manco Polo gives the name of Fanfur to one of its provinces, probably for Campur or Campur as it is now called. A beautiful lake on the island, is mentioned in the Hitopades'a, under the name of Padma'-nilaya or the abode of Padma'-De'vi.

Ir is also called Mandara in the Puranas; and, as it is represented as a most delightful country, it may be denominated Su-Mandara; and it was called Samander by former geographers. But it seems, that this appellation is derived from Sumander in the spoken dialects of India, from the Sundvit Sumudra, which fignifies the ocean. The author of the Revisions an island near the Ganges called Oceanis; and EL-Enrissi five that the island of Samandar is near the Ganges. Probably the

author of the Periplus confounded it with Sagara island, a name of the same import, at the mouth of the Ganges and called also Oceanis by Diodorus the Sicilian The context, however, of this author, and of more modern geographers, show that it cannot be the same island. Salmasius and others improperly laugh at the idea of an island at sea being called Oceanis. This Oceanis was probably the place of abode of old Samudra, the old man of the sea, often mentioned in romances in the east.

THE words Samudra, or Samundur, are pronounced Sumundu and Mundu in the dialects of Ceylon; and there is an island of that name mentioned by ancient geographers in the eastern seas, and supposed by them to be the same with Taprobane or Ceylon; but Stephanus of Byzantium says that the silver island made part of Taprobane, which is really the case. It is also called by them Palai-Simundu, which I take to be a corruption from Pulq-Simundu, Pulo-Symotta, the island of Simundu, or Symotta. The description of that island, under the name of Simondu, does by no means agree with Ceylon: but is easily reconciled with Sumatra, though we know but little of the interior parts.

The large lake called Megisha, with the metropolis, does not exist in Ceylon, but is probably that extensive lake to the south of Menang-cahow, mentioned by Mr. Marspen in his map of Sumatra, from which several large rivers seem to issue. The harbour of Hippuros, or Ipporus in Pulo-Simundu is called Appoor by Danville, and Ippu by Mr. Marspen from the Sanscrit and Hindi I-pura or I-pu, and in a derivative form Ai-pura, the town of the goddess I or Bhavaní. From this lake issues the river Andraguerii or Indergerce, in Sanscrit

indra-giri; because its source is in the giri, or mountain of INDRA, or Maghabá; from whom probably, the lake in the plains below was denominated Maghaba or Megisbá, according to PLINY, and Padma-nilaya or the place of abode of PADMA-DE'VI the consort of VISHNU, in the Hitopades'a.

FROM this lake issued two rivers, according to PLINY; one called Palesimundus slowed towards the south, and towards a town of the same name (perhaps the modern Palembang) which was the metropolis of the island, and had a samous harbour. The river divided then into three streams, the smallest of which was five surlongs broad, and the largest two miles nearly. Thus I translate this passage of PLINY: for it is impossible that three such large arms of a river should fall into a harbour. According to Mr. MARSDEN, this lake communicates with the river of Palembang: for, says he, the inhabitants avail themselves of this lake in transporting their goods to, and from Palembang.

The other river, toward the north, and supposed to issue from that lake, was called Cydara; probably because it slowed through the country of Ru or Aru, called Daru by former European travellers: the capital of which, on its banks, was probably called Cota-Ru, or the town and fort of Ru. This is the largest river in the island, and of course its source far remote into the interior parts of the country. The river Siac seems to be a branch of it: and the Campar is supposed to communicate with the river Indra-giri. Opposite to this, toward the west, another river slows from the mountains of Indra-giri, and is called An-

[.] d Millery of Samere, p.g.

drapour or Indrapour from the Canscrit Indra-pura; and I believe that the town is the same which is called Andra-Simundu by ProLEME, and foifted into Ceylon by him, on a supposition that it was the same island with Pulo-Simundu; and I believe that this is not the only place in Taprobane, that belongs to Pulo-Simundu. The mountains of In-DRA, or Maghabá in the island of Sumatra, are mentioned in the Vrihat-cat'há, under the name of Balakaca, which is synonymous with Megha, from its summit being capped with clouds; and INDRA, who presides over rain, resides above the clouds: hence he is called Me'g. HAVA'HANA, ME'GHA-BA'HANA, and in conversation Me'GHABA'N, OF the cloud borne. The other mountains in Sumatra, mentioned in the Vrihat-cat'ha, are Mainaca Vrishabha, and Chacra. Upon these four mountains, as many gods are, in the same book, declared to reside, and to travel occasionally in their self-moving cars to the White Island in the west, in order to pay their respects to VISHNU, and his consort ABD. HITANAYA', or the daughter of the Ocean. Naricela, another name for this island, implies its abounding with cocoa-nut trees, the leaves of which being agitated by the winds strike against each other, and seem to repeat the words Boc.boc or Vac vac: or the continual noise which they make is compared by the Hindus to what is called in Hindi Boc-boc or constant chattering. Sumatra is then the island of Boc-boc, Vac-vac or Wac-wac of Arabian authors; who say that the leaves of these trees striking against each other seem to repeat the word Wac.

Sumatra appears to me to be the same island, in which Jambus Lus is supposed to have resided seven years, and from which he went to Palibothra. The inhabitants, says he, have two tongues, or lan-

guages; their own first; and probably the Malay was the other, which they spoke fluently, but I suppose only in the districts bordering upon. the sea. JAMBULUS takes notice, that this island abounded with hot. springs, which is true of Sumatra, but not of Ceylon. They had alsoan alphabet, confishing of twenty-eight letters, divided into feven. classes, each of four letters. There were seven original characters, which, after undergoing four different variations each, conflituted thefefeven classes. They wrote also from top to bottom: and that this was the case formerly in Sumatra is my.opinion.* For the manners of the natives of the Philippine islands, correspond in so many striking partia culars, with those of the Sumatranst that no doubt can be entertained, fays Mr. Marsden, if not of a famencle of origin, at least of an intercourse and connexion, in former times, which no longer exists, They used to write from top to bottom, till the Spaniards taught them to write from left to right. The Tagala alphabet in these islands, has certainly great affinity with those of Sumatra. . .

THE two alphabets of the Sumatrans confish only, one of twentys three, and the other of nineteen letters; but it is probable that there were two forts of them formerly, as in India, and which were sorigis nally the same. One was used by the more civilized and learned

^{*} Dr. Levden, who has been lately engaged in inquiries concerning the tribes inhabiting the islands of the eastern Archipelage, partly confirms this conjecture by the information, that the mode of whiting, prachifed by one of the without in Sumatra (the Batter), is perpendicular; but instead of commencing at the top of the line, the writing begins at the bottom. Mark-den's Batter alphabet is stated to be rorred, provided the plate be turned in a perpendicular instead to herizontal direction. Her T. C.

t Hiltory of Sumatra, p. 2554

classies, and at court; the other was current among the lower classies, whose poor and barren dialects had sewer sounds to express. Be this as it may, the elements of their alphabets have an obvious affinity with those of the Sanscrit. The Sanscrit alphabet, after striking off the double letters, and such as are used to express sounds peculiar to that language, has a surprising affinity with the old alphabets used in Europe; and they seem to have been originally the same. This subject I intend to resume hereafter. The Emperors of Sumatra, when endeavouring to introduce civilization into their country, opened an interconfie with India, but more particularly with the kingdom of Majadha, and Palibothra; for, as Mr. MARSDEN judiciously observes, the Malay language has received no improvement from the dialects of the Peninsula in India. All the Hindi and Sanscrit words in that language are such as were in use at the court of the Emperors of India, residing in Bahar, and among the better fort of the inhabitants of that country.

THE Kings of Sumatra call themselves Maha-rajas to this day; their prime ministers are called Mantri: which are both Sanscrit terms. In their language Dewa and Dewata are derived from Deva and Devata in Sanscrit; the first of which signifies a god, and the other a deity. Among the names of places in Sumatra, very sew are Sanscrit, but the following are undoubtedly such; viz. Indragiri, Indrapura, Ipura or Aipura, Sinha-pura, Singu-pour, or Sincapour.

JAMBULUS says that this tract of islands, or Lance, consided of seven principal ones: and to this day in the Peninsula, Lance is often called

[•] As. Res. v. iv p. 233.

⁺ Hult. of Sumatra, p. 285, and from Mantri the Portuguese made Mandarin.

Yail-Lanca or the leven Lancas; because it consisted of seven islands. This information I owe to Mr. Duncan, Governor of Bembay. From Yail-Lanca sormer travellers made-Ylanca:

Sumatra is perhaps the island of Sabalá mentioned in one of the Puránas; and it is the same which is called Saivalá or Saibalá in the View purána; section of the earth, and represented as a mountainous region in the skirts of Bhadrásva, or that part of the old continent between the N. E. and S. E. quarters. From Saibalá, Apuleius and Aristotle* probably made Phebol or Psebol, as some learned men are inclined to read it. The former says, that in the eastern seas, there are two large islands, Taprobane and Phebol: Aristotle places the latter opposite to Arabia, and we have seen before that the Pauránics, Arabian and Persian authors insist, that Súmatra is close to the continent of Africa. The island of Sabala is probably the Samil or Shamel of El-Edrissi and other eastern geographers, who call it also Sabil. The country of Cephala is noticed by former European travellers; and in the year 1543 adventurers from that country plundered and ravaged part of the island of Sumatra,

III. L'et us now pass to the third issand or Sinhala, now Caylon.

Its Sanscrit name is a derivative form from Sinha a lion, and it was given to it on account of its being inhabited by Sinhalas, or the off-

^{*&}quot; Azzeror. de Mündé.

to Hill. of Sumatra, p. 6.

spring of a lioni. It is however more generally called Baned in the Puranas, and is represented there as the country of Ravana, or Riban, the brother of Cuvera; and both were born at therextremities of the world, in the N. W. As he was contemporary with RA'MACHAN-DRA, if there ever was fuch a being, he must have lived about 1800 years before Christ. The wars of RAVANA in Lanca, and the adjacent countries, are famous all over India, and make an era in the history of Cevion. Traditionary Jegends in that island lay, that in consequence of this bloody war, the island was depopulated, and remained in that state for 1815 years, being only inhabited by Daityas, or rather savage tribes. Ceylon was afterwards called Salava, or Sálavam according to F. BARTHOLOMEO, from the Saleyas, a certain tribe in India called also in the Puran'as Salavas. The famous peak of Adam was called Salmala, or the mountain of Sála. It is mentioned in the commentary on the Súrya-Sidd'hánta; in which it is said, that MAYA the offspring of the fun by the daughter of the divine Twashta in the west, came from Rómaca-nagara or Rome to the mountain of Sal-mala in Lancá, to make tapasya in honour of the sun, in order to obtain astronomical knowledge from him. Another name for it is Samanala from Saumya-Nala another son of Twashtá, who built RA'MA's bridge. Twashtá is the chief engineer of the gods, and his grand-ion Maya of the Daityas.

THE appellation of 'Salica, or Sálice, as it was called by ancient geographers of the second century, is also a regular derivative form in Sanscrit, from 'Sála or Sáli: this denomination was unknown to PLINY. According to F. BARTHOLOMBO, and former travellers, Cepton was cal-

^{*} As. Res. v. vii. p. 48.

led Nam, and Ra-nad, Randr; the country of Na, which lightimes the earth in general. Trained, or Transcript santher names for it, againes the three countries, meaning I suppose the three islands of Lines.

The Hindus reckon the longitude from the merelian of Lanca. passing through the prak of 'Splanala, the 'place of worthin called Rémes'wara, (or dedicated to Is'wara, with the title of Rama,) 'Avants or Ujjain, Meru, and the mountain of Vatsa in Curu or Siberia, which last is most probably an imaginary place in that country. The place of Rama was called Arima by Musleman writers; and they faid that it was under the equator; and exactly half way, between the straits of Alexander or Malaca, and those of Hercules or Gades in the west; and they gave the name of Gadir or Gades to these two straits, both leading into two vast Mediterranean seas; and through Arims the Hindus, and even some Arabian authors, it is said, made their first meridian to pass. ALI-Coshgi a Persian astronomer, who lived about 350 years ago, says that in his time some Hindus placed their first meridian at Canendora, or Jum-cote in the east.* I believe that some of them did so formerly. and this of course occasioned afterwards some consusion. Their first meridian then passed through the eastern Cerne, and the last through the western one, the several islands of which tract were the original islands of the blessed. When this mode of reckoning was altered, the meridian was placed in the middle of the world, yet it still passed through the eastern Cerne; though through a different part of it. This induced them also to bring one extremity of the western Cerne under the same meridian, probably for the sake of symmetry, which was cer-

[·] Abulfeds Cherafmin &c. descriptio int. Geograph. min. wal. iii p. g.

tainly a sufficient reason with them. Thus the iron peaks of the two Tri cútádris sell in the same meridian, and the northern one might be about Nova-Zembla.

This made me suppose, on my first acquaintance with the Puran'as, that the White Island was an Utopian land, and I resolved of course to give myself no further trouble about it. The ingenious Mr. BAILLY would not have failed, to have confidered this projection of the northern Tri-cúta, as a confirmation of his own system. There is another instance of the fondness of the Hindus for a symmetrical arrangement, and noticed by STRABO, as we have seen in the first part. The mountains to the north of India are in an oblique direction, and the first range of the snowy mountains is in the same line with Rómaca-pattan or Rome, and Yamapuri or Jumcote, as placed by the Hindus, one at the furthest extremities of the west, and the other in the same manner toward the east, as represented in the second number of the accompanying plate. But as this oblique direction of the mountains to the north of India, does not look so well in the mode of projection adopted by the Hindus, they have represented them in a parallel direction with the equator; and with them Juncote and Rome. STRABO highly reprobates that alteration in the direction of the mountains to the north of India; and which in his time, had been adopted by geographers in the west...

These two Gadirs, called the eastern and western gates, by Arab and Persian authors, are in an oblique direction, and may be called the terrestrial gates: for in heaven there are also two gateways, one in the west in the tropic of Cancer and the other in the east in the other tropic. These were called the gates of the sun: the southern one was.

denominated the water gate, and the life gate was in the north. The fouls of the departed ascend through one gate, and those who are to be born again descend through the other, according to western mythologists. The Hindus have also two roads, one in the north or left, and the other in the south. Those who follow the left path, ascend through the northern road; and those, who follow the right one, ascend through the southern path.

On the Languages and Literature of the Indo-Chinese Nations..

By J. LEYDEN, M. D.

THE inhabitants of the regions which lie between india and China, and the greater part of the islanders of the eastern sea, though divided into numerous tribes, and equally distimilar in their languages and manners, may yet with propriety be characterized by the term Indo-Chinese. Situated between India and China, each of which proudly styles itself the most ancient among the nations of the earth, they have contented themselves with more modest claims to antiquity, and professed to borrow from one or other of their neighbours the principal seatures of their religion, laws and manners. The different periods however at which these were adopted in different countries, the various degrees of civilization, and the pre-existing habits on which they were engrasted, have produced a diversity of national characteristics, by which they are not only distinguished from the Indian and Chinese nations, but also from one another, notwithstanding their common mixed origin.

The intercourse of Europeans with the Indo-Chinese nations, though, for the first two centuries after the atrival of the Portugueze in the East, scarcely inserior to that which was carried on with India or China, was; not of such a kind as to surnish us with a very accurate or extensive knowledge of their laws, manners or literature; and for mose than a century it has been rather declining than increasing. Neither, since our

late rapid acquisitions in *Indian* languages and literature, have we obtained any important accessions to our information in this quarter; though! both-political and literary reasons seem to require them,

THE materials of this imperfect, sketch were chiefly collected in the course 'of a voyage, which the state of my health caused me to take tothe eastern illes, in 1805; during which I resided some time at Penang, and vifited Achi, with some other places on the coasts of Sumatra and the Mahayan peninfula. Cultivating an intercourse with a variety of individuals of different eastern tribes, I availed myfelf of the facilities which the situation presented; to correct the vague ideas which I hadf previously entertained, concerning their languages, literature and the fihation of their tribes. Though my information was chiefly collected. from native fources, yet it-formetimes happened, that these were not exactly such as I should have preserved, had better been attainable; and fometimes too, from the indifferent flate of my health and other causes, I was not able to avail myself of these sources of information to the extent I-could have wished. Feeling myself-equally embarrassed by the extentof the subject, the difficulty of the research, and, perhaps I may add. in some instances, by the novelty of the investigation, I should have helitated to lay before the Asiatic Society these impersect results, had I had. any immediate prospect of pursuing the discussions. I do not however figure of being able, at no very destant period, to offer some more mihute and correct views of several of the subjects treated here in a curefory manner; and, at all events, I trust this attempt to introduce order and arrangement into a subject at once so extensive and intricate, and todisentangle it from a degree of confusion which seemed almost spexa

tricable, may not be altogether without its use; but may, even where I have failed, serve to point out the proper method of insuffication.

THE Indu-Chinese nations, at a very early period, seem to have generally embraced the fystem of Bunn't a. refrom the want of original historical documents, we can only conjecture, the persion at which this event took place, in the different regions over which it has extended; but at present it is chiefly confined; to the continent. The coasts of the Malayan peninfula, and of the greater, part of the castern isles, are chiefly occupied by the Moslems. The original inhabitants, therefore, being for the most part confined to the interior of these islands, are still very imperfectly known to Europeans; so that it is often impossible to determine, whether their religious institutions are most connected with the tenets of BRAHMA On BUDD, HA, and often to reduce them to any known fystem. From the names and epithets however of some of their deities, even as given in the vulgar, and incurious manner of common navigators, it is often easy to discover their connection with the grand features of Hindu superstition; but our notices concerning them are generally too scanty, and our narratives too erroneous, to enable us to classify them with absolute certainty. Such is the difference of oriental and European manners, that the simplest narrator is apt to mingle conjecture with observation; while an absurd affectation of superior sagacity and a disdain of vulgar superstitions and prejudices, often prevent those when whave had the opportunity of observation, from detailing the most usefully pieces of information, or induce them to reject, as anile and useless fables, the mythological narratives which would enable us to determine the origin of a nation or a tribe, ...

scrit than of Palis though the influence of this latter is not to be enviroly excluded. But several of them have been a second time modified, by the introduction of Arabic, as the language of religion and learning, after the conversion of several of these to the Mahummadan saith.

The vernacular Indo Chinese languages on the continent, seem all to be, in their original structure, either purely monosyllabic, like the spoken languages of China, or they incline so much to this class, that it may be strongly suspected, that the sew original polysyllables which they contain, have either been immediately derived from the Pali, or somed of coalescing monosyllables. These languages are all prodigiously varied by accentuation, like the spoken languages of China; and every foreign modification which they have received seems to have been immediately derived from the Pali.

In the paucity of existing monuments, relative to the Indo-Chinese nations, no better method presented itself, either for classing their tribes, or laying a foundation for historical researches, than by examining the mutual relation of the several languages which are current among them. This method, when applied on an extensive scale, is always the surest clue for developing the origin of a nation, and indicating the revolutions to which it may have been subjected, either by foreign conquest or colonization. After the relations of the language itself, the ancient monument and compositions, preserved in it, claim our regard; and I have therefore noted, under their respective heads, such as have come to my knowledge; premising that my opportunities of procuring this species of information have been very unsavourable, and of examining them, very limited.

The Indo-Chinese languages may be confidered in the following order.

Polysyllabic languages.	Monosyllabic languages.
z Malàyu,	7 Rukhéng,
·a Jáwa,	8 Bárma,
3 Bogis.	9 Môn,
4 Birna,	10 Thay,
5 Batta,	zı Khôhmén,
6 Gála, or Tagála,	12 Lâw,
	x3 Anám,

The learned language.

14 Pali.

I. MALAYU.—The Malayu language, so pronounced in the Malaya peninsula, but by Europeans generally denominated Malay, is used by the numerous and enterprising nation, of that name, who are termed Khék by the Siamese, and Masú by the Barmas. This language, which from its sweetness, has been termed the Italian, and from its widely extended use, the Hindustani of the East, though it coincides with the monosyllabic languages in its general construction and analogies, is properly polysyllabic in its form. Having spread itself over a great extent of country, not only in the Malaya peninfula, but far among the eastern isles; and having been propagated by a race more skilled in arms than in letters, it has branched out into almost as many dialects as states, by mixing in different proportions with the native languages of the aboriginal races. This is the circumstance which renders the investigation of the origin and relations of the Malayu language a matter of difficulty, as it becomes necessary to examine the history of the nation, as well as the structure and composition of the language itself. Though used

by a nation of comparatively late origin, at least with respect to the principal features which it at present presents, the history of this nation is still very obscure, rather, it may be presumed, from the want of investigation, than from the want of materials for its illustration. The history of the origin and progress of the Malayu tongue, of course partakes of this obscurity; but notwithstanding the great diversity which occurs in the spoken dialects, in the bazar jargon, or as the Malays term it, the Basa Dagang, of the several Malay states, the Basa Juwi or written language of composition, is nearly the same in all; and the popular, or vernacular languages, are reckoned pure, in proportion as they approximate to the written language.

Assuming therefore the Basa Jawi as the standard of comparison, the Malayu language, in its present state, consists of three principal component parts. The first of these, which is rather the most copious and current in the language of conversation, may, perhaps, in the present state of our knowledge, be regarded as original, though it is not only connected with the insular languages, but with some of the monosyllabic, as Bárma and Thay. The second, which is obviously derived from the Sanscrit, is rather inserior in the number of vocables to the sirst, though, as far as regards general use, greatly superior to the third part, which is derived from the Arabic. As a spoken language, the Malayu exists in the greatest purity in the tin countries, or the peninsulation of Malaya, which is obviously the Temala of Ptolemy. Temala is a regular derivative from the Malay vocable tema, which signifies tin, and from this, among other circumstances, we may be permitted to inser the high antiquity of the basis of the Malay language from its giving name

to the Cassiterides of the east. The Malayu language is spoken in its greatek purity in the states of Kiddeh or Tanna Say, Pera'k, Salangor, Killung, Johór, Tringgano, Pahang and as far as Patani, where it meets the Siamese. Among the western Malays in general, it is spoken with more purity that among the more easterly isles, but on the coast of Sumatra, or Pulow Purichu, it is intermixed with the Batta and other original languages. The Menangkábow race, who feem at an early period to have ruled the whole island of Sumatra, whose chief assumes the name of MAHA' RA'JA' of RA'JA's, and derives his origin from Lánkápura, speak a dialect of Malayu, which differs considerally from that of the peninfula; but which seems, as far as I can judge, to coincide in many respects with the Jawa or Javanese language, The race have probably derived their origin from Lankapura in Java. The Malayu dialect of Riyow and Linga seems to be mixed with Javanese, as are those of the Malay states on the island of Jiva. The dialect of Puntiana and Sambas is purer than that of Borneo or of Banjar, but that of Passir, on the cast coast of Borneo, is greatly mixed with the original language of Celebes, or the Búgís, The Malays of Celebes speak a dialect greatly mixed with Bugis, while those of the Moluccas and the more eastern isles have adopted such a multitude of foreign words, that their dialect sometimes seems to be quite a different language. The simplicity of structure which the Malayu language possesses, in common with those of the monosyllabic class, greatly facilitates this adoption of foreign terms; and the practice is so prevalent in the more easterly isles,. that the term Basa Timor, or the eastern language, is currently applied to every kind of jargon.

As the Malayu language, from its wide extent and the adventurous spirit of the nation, seems to have exerted, in the eastern isles, a modifying influence, similar to that of the Sanscrit in Hindustan and Delina, and of the Pali among the Indo-Chinese nations; it becomes necessary to examine it somewhat more particularly; especially as some of the opinions I have been led to adopt concerning it are summer authority.

THE Malay language, according to MARSDEN, whose opinion has been rather admitted than confirmed by Sir W. Jones, is "a branch, or dialect, of the widely extended language, prevailing throughout the islands of the Archipelago, to which it gives name, (which may be understood to comprehend the Sunda, Philippine and Molucca islands) and those of the South Sea; comprehending, between Madagascar on the one hand, and Easter Island on the other, both inclusive, the space of full 200 degrees of longitude. This confideration alone," adds that able author, " is sufficient to give it claim to the highest degree of antiquity, and to originality, as far as that term can be applied. The various dialects of this speech, though they have a wonderful accordance in many effential properties, have experienced those changes which separation, time and accident produce; and, in respect to the purposes of intercourse, may be classed into several languages, differing considerably from each other." * In another paper, published in the Archæologia, vol. VI, this able author has successfully exhibited a variety of instances of coincidence, both in found and fignification, between the Malay and several of the castern

^{*} Afrat. Refearch. Vol IV.

dialects. By attempting to prove too much, however, I apprehend, that he has failed effentially. He has pointed out a few coincidences, but has left the mass of the language totally unaccounted for; and as the few coinciding words may all have been derived from a common fource, it is perhaps a more natural inference to conclude that they have all been modified by some general language, than with Sir W. Jones, to determine that the parent of them all has been the Sanscrit. The same author, in his history of Sumatra, seems inclined to think that the Mulay language was indigenous in the Malay peninfula, from which it extended itself among the eastern isles, till it became the lingua franca of that part of the globe. The author of the description of Siam, in the modern part of the Universal History, not only assigns a very different erigin to the language, but accounts in a very different manner for its uncommon extent. Describing Malacca, he observes, " The Malayan tongue is formed out of the languages of the different nations which refort hither, by selecting the choicest words in each. Hence it is reckoned the most agreeable and elegant in all the Indies, which quality, joined to its use in trade, causes it to be learned by the remotest eastern people." A language, formed according to this ingenious idea of selection, might probably be remarkably agreeable and elegant, but it would be still more remarkable, as a new phænomenon in the history of nations. It would certainly be a very uncommon occurrence, in the history of mankind, to discover a nation so choice in matters of abstract found, and so refined in their organs of hearing, as to take the trouble to learn a copious and unknown language, for the mere abstract pleafure of gratifying this delicate sense, or appetite for sweet vocalic sounds. Nevertheless, though the author is a little unfortunate in his doctrine

of causes, the sact to which he alludes is worthy of attention; for it is not accessary to possess a very minute knowledge of the Malayu language, to be able to call its originality in question. It may be safely assumed, that neither the Malay lingua franca of commerce, nor any of the maritime dialects of Malayu existed previous to the æra of Mahummed, in a state similar to that in which they appear at present; and these dialects seem to comprehend all that are usually included under the denomination of the Malayu language.

THE Malayu language, in this limited fense, is obviously indebted to two foreign sources, for the majority of the vocables which compose it, and these are the Sanscrit and the Arabic.

The connection between the Sanscrit and Malayu was first remarked by Sir W. Jones, and Mr. Marsden has confirmed the fact, by about sisteen examples, selected, as he says, with little pains, from a Malay dictionary, which, had he been acquainted with the Sanscrit language, he might, with very little labour, have extended to fisteen hundred, or perhaps sive thousand. Many of the Sanscrit words in the Malayu, as he observes, are such as the progress of civilization must soon have rendered necessary, being frequently expressive of mental feelings, or such modes of thinking as naturally result from the social habits of mankind, or from the evils which tend to interrupt them. Many of the names of the common objects of sensation are also of Sanscrit origin; nevertheless the simplest part of the Malayu language, and that which is most indispensable to its existence as a distinct tongue, is certainly not derived from the Sanscrit.

WITH respect to the connection between Arabic and Malayu, MARSDEN observes, that the latter language abounds with Arabic words, which writers affect to introduce, because this display of literary skill is, at the same time, a proof of their religious knowledge. He adds, that these words are generally legal or metaphysical terms, borrowed from the Koran of its commentaries, that they are never expressive of fimple ideas, are rarely used in conversation, and, with sew exceptions, feem never to have been thoroughly incorporated into the language. This account of the introduction of Arabic into Malayu is unexceptionably just, excepting with respect to the use of Arabic terms in conversation, which is affected by all Malays who have any pretentions to literature. The number of Arabic vocables, too, that have been introduced into Malay compositions, though certainly inserior to those of Sanscrit origin, are considerably more numerous than might be supposed from this statement; or rather, as in Persic and Turki, it is difficult to assign any bounds to their introduction, but the pleasure of the writer. may also be observed here, that in the Malayu language, Arabic plurals are very commonly used as singulars, as often happens in Turki, and other dialects which admit of a mixture of Arabic. MARSDEN has mentioned another peculiarity, in which Arabic vocables, adopted by the Malayu, differ from adopted Sanscrit terms. While the Arabic words retain their peculiar and harsh pronunciation, those of Sanscrit origin are softened down, and assimilated with the rest of the language. This observation must likewise be taken with many limitations; for numerous words, of Arabic origin, are so completely assimilated to the Malayu pronunciation, that they are no longer capable of being recognized, even by a native Arab, unless by attention to their radicals; the ain and ghain, in particular, excepting in religious terms, are very generally converted into Alif and Gaf, both in writing and pronunciation. It is certain, however, that Arabic words are naturally untractable, and are apt to have a foreign appearance, when assumed into any other language, in spite of all modifications. The Arabic is a language so complete in itself, and so peculiar in its structure, that it is as little capable of coalescing acatly with any other language, as a curved line with a straight one.

MARSDEN has likewise hazarded an opinion, that the polish, which the Malayu has derived from Sanscrit or Hinduvi, has been obtained immediately from the natives of Guzerat, previous to the debasement of the genuine Hinduvi of the northern provinces, by the mixture of Arabic nouns, and the abuse of verbal auxiliaries. The resort of the people of Guzerat to Malacca, he adds, " is particularly noticed by DE BARROS and other authentic writers; and it is well known that the Hindu language has been preserved, with more purity, in that, than in any other maritime province of India." To this, it is sufficient to anfwer, that the Sanscrit vocables, adopted in Malayu and Guzeráti, are generally preserved purer in the former than in the latter; that the Guzeráti has no pretensions to be considered as a pure dialect of Hinduvi, but, on the contrary, is one of the very first that was corrupted by a mixture of Arabic, and that long prior to the period mentioned by Dz BARROS. The Bengali language itself, corrupted in pronunciation, as it certainly is, might have been more safely adopted, as the medium for the introduction of Sanscrit vocables into Malayu. Many Sanscrit words that are in current use in Bengáli, likewise occur in Malayu, with almost

the very same pronunciation. Of this it it easy to produce a multitude of instances. The following are such as present themselves spontaneously:

Beng.	Malay.
Tot'hapi,	Tatapi but, however.
Punäh,	Pun farther, again.
Tutkalé,	Tutkala then.
Bongsh,	Bangfu a race or family.
Kichhu or Kichhi,	Kichi a little.
Inggit, a lignal,	Ingat notice, memory.
Barung, a gift, a thing, a quality.	Barang-barang, - any thing.

But it is needless to adduce further instances; as the Maley history and the language itself, exhibit traces, sufficiently clear, to direct us to the region, with which the Malays had the most frequent intercourse, at an early period, and from which their language feems to have received the most considerable modifications, and that is the ancient kingdom of Kalinga. Here I am again under the necessity of dissenting from MARSDEN'S opinion. He fays, "It is evident, that from the Telinga, or the Tamool, the Malayan has not received any portion of its improvement." I apprehend that the express reverse of this opinion is evident; for the Malays, at this very period, know the Coromandel coast by no other name than Tanna Keling, the land of Keling or Kalinga: a multitude of compositions, current among them, profess to be translations from the Basa-Kehing, or Kalinga language; and the Malayu language contains a great number of words that are Tamul, Malayalam and Telinga; though neither Sanscrit, Hinduví, nor Guzeráti; and a variety that are only to be found in Telinga, the vernacular language of the Kalinga Desa.

Fox the same reasons that I inser an ancient intercourse to have subsisted between the Mulays and Kalingas, I am induced to think that a very intimate connection subfilled, at a very early period, between the Malar, and Jevanese. Not only the proximity of the island of Java, and the constant intercourse between the Milityrand Incanese, point to this connection, but the whole of $M \nu' v^{\dagger}$ literature, the state of the language, and the whole feries of M / w history, confirm it. It is from the Javanese that the Malays profess to have received all their earlier mythological fables; and a great variety of their books profess to be tranflations from that .language: even in compositions professedly translated from the Keling language, the Javanese name of the flory is often mentioned: and almost every Sanscrit term, that occurs in Malaya, is likewise to be found in the Basa Dalam Jawa, the high language of Java, or rather the language of the interior; though a multitude of Sanscrit words, current in the Javanese language, are not to be found in the Malayu. Besides, many of the Milay states, and those of the greatest antiquity, are known to have been founded by Javanese adventurers, anterior to the arrival of the Arabs; and if the historical traditions of the Malays were better known, there are many reasons for supposing, that more of them would be found to claim the same origin.

The greater part of the words of Sanscrit origin, found in Malayu, do not appear, to have been introduced through the medium of the Bali. In many instances, the Malayu form approaches nearer the pure Sanscrit than even the Bali itself; and many mythological stories exist in Malayu, thological characters are introduced in them, that, as far as I have been able to learn, do not occur in Bali compositions, at all, nor in any of the Indo-Chinese languages of the continent.

Bur lafter assigning the Arabic and Sanscrit vocables to their proper sources, large proportion of words in the language will still remain unaccounted for; and these, words too, expressive of the most simple class of our ideas, and the most remarkable objects in nature. This part of the language, which, in comparison of the rest, may be termed native or original, MARSDEN attributes to what he reckons the original infular language of the South Seas; and this original language again, Sir W. JONES pronounces a derivative from the Sanscrit. That it is not Sanscrit; a very flender knowledge of the two languages is fufficient to evince; and if this original part should itself turn out to be derived, as I apprehend, from different sources, the idea of an original insular language will fall to the ground. Now there are a variety of reasons for supposing, that this part of the Muliyu language, which might be imagined the most fimple and original, is, in reality, more corrupted and mixed, than those parts which are confessedly derived from a foreign source. Several of the Malayu terms, which express the most simple and remarkable objects in nature, appear to be only groß auticular corruptions of true regular terms in the more ancient, eadlern languages, as Jawa, Búgís, T'hay, and Barma; and many of the symplest objects are not distinguished in-Malayu by simple words, but by compound metaphorical and significants: terms. The om flion of the first syllable, in words derived from a foreignlanguage, whether ancient or modern, is a frequent practice, in the Ma-Livu language: thus the Sanscrit Avitara becomes Bitaila, and thus: rumbulun, the moon, in Javanese, becomes Bulun in Maldy Môputi, which fignifies white, in Búgis, becomes puti in Malayu. Again, the metaphorical term mata-hari, which literally fignifies the eye-

of day, is the only native term for the fun; though Chinkerwalk, a corruption of the Bali term Chakrawala, thas been adopted in the higher dialect, or poetical flyle, termed the Basa Dalam. The Malay term tuhin which lignifies the aged, is used as synonymous with Allaht'aala, which they have adopted from the Arabic. A number of T'hay vocables occur in Malayu; but, for the most part, they are neither expressive of our simplest ideas, nor of the most remarkable objects in nature, excepting perhaps ku the contracted term of Aku, I, in Malayu, which is the same in T'hay of Stamese. A variety, however, of important words seem to have been adopted from the Barma language, especially in the verbal auxiliaries; and, in most of these instances, it may be observed, that the Malayu pronunciation coincides better with that of Tavoy, or Tinnau, than with that of the Barmas proper. Thus the substantive verbal auxiliary of the present, adda, seems to be only a modification of the more simple da or de of the Barma language. The past suda of the Barma syi de, the auxiliary of the future jadi of the Barma ra-dé, pronounced ya-dé or ja-de, maw, will or may, is a modification of the Barma Mi, or minh, and the permissive auxiliary léhof the Barma lé. Of the connection of the Malayu with any of the spoken dialects of China, it is more difficult to speak with accuracy, in the present state of our knowledge. BARROW, and some other authors of reputation, are inclined to attribute the origin In many lay tribes to the nations of China; and that author observes, than even words, in the languages of Sumatra, are fimilar in found to Chierie vocables; and that the corresponding words generally express the same idea in both languages. Of the value of this opinion it is not easy to speak in correct terms, for the proper Chinese languages,

as much on a small scale, as the dialects of the Chinese; and to jumble together a number of corresponding words, in all those dialects, may therefore be no very difficult talk. Some coincidences there certainly are, between the Malayus and the Chinese-Mandarin language; thus in the first personal Pronoun, saya and gua, which both signify I in Malayu, very nearly coincide with the Chinese send and ngo, which have the same signification; but, on the whole, these coincidences seem neither very numerous nor important.

THE Milayu language is extremely well fitted for being a Lingua Franca, or general medium of communication, among the eastern isles, by the smoothness and sweetness of its tone, and the simplicity of its structure and construction. Its simple pronouns indicate rank and situation, and are almost as numerous as in Chinese; but the different dialects of the Malayu vary considerably, both in the use of the pronouns and of the verbal auxiliaries. It may also be observed, that the more mixed and impure any dialect of Malayu is, it is more verbose, more indefinite, in its expressions, and more loaded with useless auxiliaries and epithets, which encumber the language, without adding either elegance, force or dignity. The beauty and elegance of the Malayu is its simplicity; and the purity of its minor dialects may often be alseed tained by this criterion alone.

THE literature of the Malays, though the language is well adapted for poetry, is not distinguished by many seatures of originality. A degree of monotony and repetition occurs in all the compositions of the mono-

Syllabic languages, which has a great tendency to damp the ardour of composition, and extinguish poetical fire. The construction of the Mulay is analogous to that of the monofyllabic languages, and there is also considerable similarity in the character of its compositions. The most favorite species of composition, among the Malays, is the Pantún; a word which is generally translated song, but which perhaps might with more propriety be rendered simile or proverb, as it consists of a simile, proverb or apophthegm verified, and its application. A Pantun is a rhyming quatrain, and is always restricted to four lines; hence it affects a kind of oracular brevity, which is very difficult to be comprehended by Europeans, who can feldom perceive any connection between the similitude and the application. The Malays allege, that the application of the image, maxim or fimilitude, is always accurate; but it may be suspected that if one half of the verse be for the sense, it often happens that the other is only for the thyme; as in the ancient Welsh triads or triplets, in which there is professedly no connection between the natural image and the moral maxim. These Pantuns the Malays often recite, in alternate contest, for several hours; the preceding Pantún always surnishing the catch-word to that which follows, until one of the parties be filenced or vanquished, or as the Mulays express it, be dead, suda mati. Many of these Pantuns bear no inconsiderable resemblances to the Dohras and Kubitas in the ancient Hinduvi and Iruju dialects of Ihndustan.

the Persians, didactic works, or descriptive compositions and legendary or heroic narratives, are composed in this measure. The Cheritra or Hikaiat, also denominated Chitra and Kuggawin, from the Javanesa is more generally written in profe, but frequently intermixed with verse, both in the measures of the Sayer and Pantún. These Chevitras contain the mythological stories current among the Malay tribes, and also fragments of their history, embelsished in a poetical manner. The three great fources of all the Milay legends are the Javanese, Keling and Arabic languages, but in the compositions of latter date, the characters and incidents are so mixed, that it is not always casy to determine to which of these sources they ought to be referred. There is also one class of stories which the learned Malays term Susupún, I imagine from an ancient dynasty of Javanese princes to whom they relate. Some of these legends also coincide in the general story with those of the Szamese, as the Malay Selunbari with the Siamese Khunp'hen; and the Hikaiat Shah Murdan with the Siamese Lin-tong. When characters familiar in Sunscrit mythology are introduced into the Malay legends, their adventures are generally transferred by the Malays to the interior of Java; and even Arabian characters are often represented as performing their adventures in the Mulay countries. Many of these narratives exist both in prote and verse, and of several there seem to be two editions; one derived immediately from the Javanese language, and which commonly contains a confiderable number of Javanese vocaviles: the other from the Keling, which often contains a certain proportion of words more immediately derived from the Sanscrit and Telinga

Of this latter class are probably the narratives termed Hikaiat Pendawa, or Panau stories, which seem popular versions, or rather

abridgements, of the different parts of the Mahabh'arata; some of which in reality, give the outline of the story, as faithfully as the popular abridgements of it, which I have perused in Mahrata, Tamul or Telinga. I am only acquainted with the following Malay Hikarats of this class: Pindawa Lima, the story of the five Pandas: Pindawa Java, the victory of the Pandús; Pindawa Berjuddí, the gaming of the Pandús; Pindawa Pinjam-bali, the Pandús borrowing a Palace; Pind we i berjewal kapur, the Pandús selling lime. The Hikaiat Maha Raja Ruma of Purichu Nikassan, or account of the contest between BRAHMA and VISHNU, professes to be translated from the Keling of the dramauit MUNGAKARTA NIGA'RA. The Suh Sipundia, or history of a Kiling RAJAH, is probably derived from the same source. The Ilik nat Sri Rama is reckoned a Susupun story, as are the Kusomi Indra or history of Indra, the Balinta Sena, the Sih Köbut, or history of the war with the Apes, the Rajah úlar Ninggawong, the Hikalat Bida Sart, the Hikaiat Raja Pikermadi or VICRAMADITYA CHERITRA, the Hikaiat Derma RAJAH, and the Hikaiat Kalil o Damna or Malay version of the Kalil o Dumna.

THE following are Javanese relations, the Hikaiat Chikkil Wunnungputti RAJAH of Kirripún in the interior of Java, the Hikaiat Jarana
Tamasa, or the love adventures of a chieftain of Minjapahit in Java,
composed by Andika, the Kilána Perbujaya Cheritra, or story of
Prince of Kirripún, the Misa Perbujaya Cheritra, the Misa
Kiamong Cheritra, or history of a Princess of Daha in Java, carried
off by Timu'ngu'ng Bapang Chakar Bima, and rescued by

BITARA KALA; the Jaran Kilinang Cheritra; the Ratu Bader Kisna Cheritra; the Panja Wilin, or history of INU KURTAPUTTI; the Gambar Wira-Pulra: the Gambar Sri Ratu Anum Aní Malayu, or history of GAMBAR SRI, Princess of Daha and RAJAH ANU'M of Mulaya; the Naga Bisaru, or history of a Princess of Daha, who was transformed into a snake and confined in a lake, the Putti Kola Bisnu or history of Vishnu, the Kinta-Buhin, or history of a chief of Banjarkulin in Java, the Kilana Jayang Sittru, or history of RADIN JARAN TINANGLU, the Angling Dermavi Raja-Cheritra, and the Hikaiat Parang Púting, or history of the hatchet without the handle. To the same source are probably to be referred the following, if they are not purely of Malay composition; the Hikaiat Pelanduk Jinaka, or history of the sagacious hogdeer. The Hikaiat Burung Pinggey, or history of a wonderful bird. The Deva Mandú Cheritra, the Sayer Srí Batin, the Hikaiat Bian and the Hikaiat Rajah Booda'k.

The following are modifications of Arabic narratives, accommodated, however, to the peculiarities of the Malayu manners and customs. The Hikaiat Amir Humda. The Hikaiat Rajah Kheiber, the chief of the Jewish tribe of Kheiber in Arabia. The Hikaiat Rajah Hinduk, the Hikaiat Mahummed Hanifah, the Hikaiat Khajeh Maimún, the Hikaiat Eblis, the Hikaiat Rajah Sbah Murdan, the Hikaiat Sultan Ibrahim-ibn-Adhem, the Hikaiat Sekunder Dulkharneini. The Koran is also translated into Malayu in the same paraphrastic manner as into Persic.

THERE are many Malayu compositions of a historical nature, though they are not so common as the classes that have been enumerated: such as the Ilikaiat Rajah-bangsu, which I have not feen; but which has been described to me as a genealogical history of the Malay RAJAHS. The Hikaiat Malaka, which relates the founding of that city by a Javanese adventurer, the arrival of the Portuguese and the combats of the Maluys, with ALBUQUERQUE and the other Portuguese commanders. The Hikaiat Pitrajaya-Putti, or history of an ancient Rajah of Malacca, the Hikarat Achi, or history of Achi or Achin in Sumatra and the Ilikarat Hang Tuha, or the adventures of a Malay chief during the reign of the last Rajah of Malacca, and the account of a Malay embally sent to Mekka and Constantinople, to request assistance against the Portuguese. Such historical narratives are extremely numerous: indeed there is reason to believe that there is one of every slate or tribe; and though occasionally embellished by skition, it is only from them that we can obtain an outline of the Ma ry history, and of the progress of the nation. The juridical customs or maditions of the Malays have likewise been collected into codes of different at a pairy and authority. Among those of the greatest authority are the Undang Undang, and the Addat Malayu. The most ancient of these regulations however appear to have been adopted from the Jacutese and Bugus. Particular states have at different periods composed peculiar regulations; as the Aldat Kiddeh, which were compiled by Rajah Shah Alum, in An. Heg. 1151.

No dramatic compositions, in the Malayu language, have fallen as yet, into my hands, though many of them are said to exist. Scenic ex-

hibitions termed "Wayang-wayang," were till lately, very common in the peninsula of Malayu, but are now represented as less frequently exhibited. The subjects of the Malayu dramas are the same as those of their histories and romances, from which, like the dramatic compositions of the Stamese and Chinese, they only differ in assuming the form of dialogue and soliloquy, the progress of the incidents being generally the same.

The following specimens of the Malayu Pantun and Sayer will exhibit the incasure of the verse and the style of the composition. The sirst Pintun is a challenge to engage in a poetical contest. The rest exhibit the poculiar images introduced, and the manner of presenting them in the Pantun.

Tuan bulu, fava tumrang Marileh kita berkiler taji Tuan fapulu, fava (umbilan Marileh kita berfindir nyani

You are a bamboo and I am but a flender twig; Yet come on, let us fhirpen our weapons: You are as ten, and I am only as mine, Yet come, let us contend in tronical veile.

Boah dalima ber pangfu pangfu Samajuga bij iwa mecah Janaan tuan berpilis bangfu Samajuga daranya merah.

The pomegranate has many partitions,
But the fixed is equally red in them all:
Do not give an undue preterence to a race of men,
For the blooding equally red in them all.

Boah mamplum deri Patani Masa sabiji de kulum rúsa Tuan Islam saya Nasrani Sama sama menangung dúsa.

Of all the Mangoes of Patani
A ripe one is but a mouthful to a stag;
You are a Moslem and I a Christian
But we must equally bear our own faults.

Batang padi jangan de rūrūt Kalu de rūrūt rūfa batangnya :Hati muda jangan de tūrūt Kalu de tūrūt rūfa badinya.

Shake not the rice stalk,

If you shake it the stalk is ruined:

Do not yield to youthful inclination,

If you yield your person is ruined.

Siri kuning deri Patani Pinang muda deri Malaka Puti kuning ana'k Nafrani Itu membawa badin chilaka.

The yellow betel leaf of *Patani*,
The fresh betel-nut of *Mulacca*,
A white yellow christian damsel,
Bring a person to total ruin.

The following passage of the Selimbari is given as a specimen of the Sayer verse, in which the Malay romances and moral poems are generally composed. In both measure and style they exhibit considerable resemblance to the ancient English and French romances; there is little variety of pause or accent, and the line consists indifferently of eight or nine syllables, one long syllable being reckoned equivalent to two short.

Tutkala tuan lunkah de natang Mata mamandang le urti bintang Chahianya limpah gilang gumilang Teadaléh abang dapat mamandang Pipinya bagei paŭ de lalang Bersambút dangan lehernya jinjang Paras sepúrti gumbar dan wayang Barang de makan berbayang bayang Dahinya bagei fahari buiun Kinningnya bintúh bagei detillang Lalu de ambil jadıkan tülun Maináki chinchin permata Silun Changgeynya panjang ber kilat kilat Sepurti mutiara suda tericat Pinggangnya ramping terlalu chantik Leher laksana gumbar delarik Mungluarkan kata yang patáh chirdík Bibirnya bagei patey chicharík Teada mamáki laku ber saja Giginya itam bukkus ber baja Chartik mojiik gilang de Raja Berlunting kutum bunga Seraja, Parasnya elők búkun kapalang Intahkan jiwa gara igan hilang Kapada mata fuda terpandang Teadaléh dapat kumbali pulang,

When my mistres looks forth from her window, Her eye sparkling like a star,
Its brilliant rays glancing and glittering
Her elder brother cannot support its lustre;
Like the red mangoe is the hue of her cheek,
Becoming her tapering sick,
Traversed with shadows whenever she swallows:
Her features like those of a statue or scenic figure,
Her forehead like the new moon in its first day,
Her eye-brows curved, so fair I could devour her,
Long has she been chosen to be my mistress.

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Wearing a ring fot with the gems of Ceylon,
Her long nails thining like lightning,
Transparent as a string of pearls,
Her waist slender and extremely elegant,
Her neck turned like a polished statue,
Eloquent in the enunciation of her words,
Her parting lips like the crimson red wood
Not by dress, but by herself adorned;
Black are her teeth straned with baja powder,
Graceful, slender, appearing like a queen,
Her locks adorned with the Serija slowers,
Her features beautiful with no defect of symmetry.
My soul is often fluttering ready to depart,
Glancing capeally forth from my eyes,
And quite unable to return to its station.

THE character generally used by the Malins, is a modification of the Arabic: and, in addition to the proper Arabic alphabet, the Malinus uses six letters, of which one is the Persic ché, à second the slurred district of the Hindustans, two more correspond in power to the Persic and Hindustans fa and ga, but are written of a different form, and the remaining two, nga and nva, are peculiar in form, but correspond to the nasals of the sufficient second series of the Deva-Nagari alphabet. The Malays of Tivi, however, often use the Javanese character, to express their own language, as those of Celebes do the Bügis. In the Moluccas, the Latin character has obtained some degree of currency, even among the Malays, and is sometimes used by them to express the Malayu language.

THE Milayu language was one of the first cultivated in the east by Furopeins. The suffactory to form a grammar or dictionary of it, as far as I know, was made by DAVID HAEK, who published in Malaju and

Bulch, a vocabulary with some grammatical observations. At the request of Cardinal BARBERINI, the Dutch was rendered into Latin, and published with the Propaganda types at Rome, in 1631, under the title of " Dictionarium Malaico-Latinum et Latino-Malaicum, opera et studio DAVIDIS HAEX." This is a work of some merit, but seems to have been composed in the Moluccas; and inclines to the Basa Timor, or eastern dialect of the Malayu. The author has given a short lift of Tarnata and Portuguese words, that have been adopted into Malayu, and some useful observations on the phraseology. Professor Thun-BERG, probably by mistake, mentions this work as published in 1707. It feems to have ferved among the Dutch, as a basis for similar compilations. The "Malaica Collectanea Vocabularia," or collection of vocabularies, was printed at Batavia in 1707:8, in 2 vols. 4to. and the "Dictionarium of te Woord ende Spraak bock in de Dutsche en de Maleysche Tale," at the same place in 1708, in 4to. A " Maleische Spraak-kunst" or Malay Grammar, was published by George Hendric Werndly, at Amsterdam, in 1726, 8vo. A " Nieuwe Woordenschaft in Neder-Duitsch, Maleisch en Portugeesch," was also published at Batavia in 840. 1780. The English have also contributed their share to the cultivation of this language. Bowrey's Grammar and Dictionary of the Malay language were published at London in 1701, in 4to. after the author had passed 19 years in trading among the eastern Mes. This is a work of great merit' and labour, and though the English character only is used, yet the pronunciation and the fignification of words are generally given with great accuracy. Bowary, however, had the affiltance of the two eminent otientalists, Hype and Marshall, in its composition, both of whom

were excellently skilled in the language. In 1801 was published at London, "A D & onary of the Malay tongue, to which is prefixed, a Grammar of that linguage, by James Howison, M.D." The author founds his claims on a ten years acquaintance with the Malays, and their language. From the scarcity of Bowney's work, I have not been able to compare it with the publication of Dr. Howison, but I suspect the additions of the latter to be neither numerous nor important. One improvement he has attempted, and it is the following. giving the Malay words in the Arabic character," fays he, "we have followed the excellent example of RICHARDSON and GIL-CHRIST in their Persian and Hindoostance Dictionaries, and it is, in fact, the character used by the Malays themselves." But had Dr. Howtson been acquainted with the Malay orthography, he would have perceived that this barbarous mode of converting the English character into the Persic, could be of no possible utility, either to an European, or an Asiatic. The Malayu has an established orthography, like the Arabic. Persit, and Hindustani; and this established orthography of Mulay MSS. be has violated, repeatedly, in every page, not only by spelling the Malay words in a mode never used among the Mulays themselves, but by omitting all their peculiar characters, and by using some Persic characters, as pa and ga, with which the Malays are unacquainted altogether. "A short Vocabulary, English and Malayo, with grammar rules for the attainment of the Malayo language," was published at Calcutta in 1708. The rules differ little from those which appear in Howison's Grammar. prefixed to his Dictionary, and the vocabulary generally coincides withit in the explanation of words, which are not very numerous.

Besides these works which have been printed, many Vocabularies and Dictionaries exist in MSS, in Dutch, English and Portugueze; and of these several are in my possession. Reland, in his " Dissertatio de lizguis Insularum Orientalium," mentions a large MS. Dictionary which he had consulted, composed by Leidekker, a Dutch clergyman in Batavia, from which he has selected a specimen of the language. Several smaller Vocabularies of Malayu have been published, chiefly by voyagers and travellers, with various degrees of accuracy. Being geneerally constructed in a very hurried manner, by persons devoid of a radical knowledge of the language, and often, as may be prefumed, under the necessity of expressing their questions by a mixture of signs, they generally abound in very ludicrous errors and rifible mistakes. Of this kind, many inflances might cally be selected from LABILLAR-DIERE'S Malay Vocabulary, nor is that published by Professor Thuni BERG, in his travels; entirely free from them. Besides they are gene: rally mixed with a variety of lingua franca, and other eastern words that are never received in correct Malayu.

The sacred scriptures, at an early period, began to be translated into the Malaju language. The gospels of Matthew and Mark were suit published in the Malaju larguage and Arabic character at Fnchusa, in 1629, in 4to. according to the version of Aib. Corn. Ruyl, and accompanied with the Dutch version. A second edition was published at Amsterdam in 1638. The gespels of Luke and John were published in Malayu, at Amsterdam, in 1646, according to the version of John Van Hasel. Van Hasel and Just. Hlurn, in 1648, published "Psalmi quinquaginta priores, Malaicé et Belgicé." The four gospels were repub-

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dished, more correctly, with a version of the Acts of the Apostles, by JUST. HEURN, at Amsterdam, in 4to. 1651. Genesis was published in Maly, at Amsterdam, in 1662, according to the version of DAN. BROU-WER, and the New Testament, by the same author, in 1668. A second. edition of Genesis was published in 1687. The sour Evangelists and the Acts of the Apostles were published "in the Malayan tongue," at Oxford, in 1677, in 4to, and reprinted in 1704. Both editions are in the Roman character, and though Heyrn's vertion was followed, yet the first edition had the advantage of being superintended by the learned HyDE, who has prefixed to it, a differtation on the dialects of the Malay, and the method to be employed instudying the language. The Pfalms, or " Psalterium lingua Malaica et Belgica," was published by VANEHASEL and HEURN at Amsterdam in 1689. The "Psalterium Malaice" was published at Amsterdam in 1735, with musical notes. A -complete verfion of the Bible was published at Amsterdam, in Roman characters, in 1733, and this version was again published in the Arabic character, with the addition of the Malay peculiar letters, at Batavia, in 5 vols. 8vo. 1758, under the direction of JACOB Mossel, Governor General of the Dutch possessions in the East Indies. The persons who superintended the edition were JOHAN, MAURITZ MOHR, and HERM. PET-RUS VAN DE WERTH. A Malay catechism was also composed by GUSTAVUS WILLIAM BARON VAN. IMHOFF, and printed at Bataria in 1716. This version of the Bible, is composed in the idiom of Batavia and Malacca, and I have heard it objected, that it is not very intelligible in Sumatra, and other Malay countries; but I regard it as quite impossible to form a Malayu version which would be approved in

point of flyle, in every Malay country at the same time, for so great is the diversity in point of slyle between the Javanese Malayu and the Arabic-Malayu, that even in the same country, those who are proficients in the one, are often scarcely able to understand the other.

II. JAWA.—The Jawa, or Javanese language, is admitted by the Malays to be that of a more ancient nation than themselves, and at no very distant period seems to have been current through the whole extent of Java. The island of Java was formerly subject to a single sovereign. bearing the title of RATU AGONG Or SUSUHUNANG, of the Susupún race, who generally held his court at Kirripún or Suryakarta. The nation was brave, enterprising and populous, and before the introduction of the Mahummedan religion, about the year A. C. 1400, their power was supreme in the eastern seas, and they extended their conquests to Sumatra. Borneo, and even as far as the Moluccas. Their voyages often rivalled the celebrated Argonautic expedition in the spirit of adventure. They became known to Europeans only in the decline of their power; yet it was still so formidable as repeatedly to shake the authority of the Portugueze in Malicca itself; and one of the dependent princes of Java was able to fit out a fleet of thirty large veffels, the admiral of which was to strongly built, as to be reckoned, at that period, cannon-proof. The Jawa language is subdivided into a great number of dialects, all of which may be respectively classed under the heads of Basa-dalam and Basa-luar, the interior or high language, and the exterior or vulgar, language of the coasts. Both of these differ considerably from the Malayu, which has adopted a multitude of terms from the Basa-lúar Jawa, or coast language of

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Jawa, compared even with which the Malayu language appears to be a corrupt derivative. The language of the interior, however, or the Basa-dalam Jawa, has a close and intimate connection with Sanscrit, and expresses the simplest objects and ideas by vocables which seems to differ no farther from the Sanscrit than in the corrupt pronunciation necessarily produced by the use of a less perfect alphabet. The only Javanese that I have met, who could speak the Basa-dalam Jawa, was not able to write the character; yet I perceived, in forming a short radical vocabulary, that he used many Sanscrit words for common objects, which are not in use in any dialect of Malayu.

The alphabet of Jawa, is peculiar, and has no resemblance in the order of position to the Deva nagari. The number of characters are twenty, and these are varied by sour vowels, e, i, u, o, but the real number of vocalic sounds is considerably greater. The Javanese character is written from right to left. The alphabet has been exhibited with considerable accuracy by Le Brun, and also by Reland; and it appears to have attracted the attention of the learned Hyde, as an "Alphabetum Bantamense," was sound among his posthumous papers, which had been written for him by the ambassador of the king of Bantam.

VARIOUS ancient inscriptions and monuments are said to exist in the interior of Java, one of which was seen by Thunberg, at Paditulis, near the blue mountains in the interior of the island, which consisted of eight lines and a half, engraved on a stone pillar, about two seet in breadth. The characters seemed, to him, to be written from right to lest, and no person had been able to decypher them,

The dialects of Bugilen and Súndo, in Java, are said to be very distinct from the Javanese proper; and, from the sirst of them, the language of Súlú is supposed to be derived. This point, however, I have not been able to investigate in a satisfactory manner.

The literature of the Javanese is similar to that of the Malays, to which it seems to have given origin. Their Kuggawins or Cheritras, contain their mythology, and the adventures of their ancient heroes, and exhibit them in a style which has no inconsiderable resemblance to that of the Hundu Puránias. The Javanese laws are arranged in codes of considerable antiquity, and celebrated among all the eastern islands:

The Jawa or Javanese language does not appear to have been regularly cultivated by Europeans, though some of the outlines of their mythological stories have been published in the Transactions of the Asiatic Society in Batavia, as well as some vocabularies of the Jawa language. In the Dutch work, entitled "Begin en voortgang du Oostind. Compan." or the rise and progress of the East India Company, a comparative view is exhibited of the Javanese and Malayu languages. The Mahummedans have translated the Koran into Javanese.

THE Bali and Madura languages, spoken by the inhabitants of the issess of the same name, appear from the best information I could procure, to be dialects of Javanese. The greater part of the inhabitants profess the ancient religion of their ancestors, resemble the Hindus in their appearance, wear the Hindu marks on their several and the women burn themselves with their deceased husbands, according to the practice of the Hindus. Like the unconverted Javanese, they are peculiarly ad-

diffed to the worship of INDEA, SURYA and V SHNU; but being neither in possition of their original religious bocks, nor of the extracts from them which have been addited in the Transactions of the Batavian Society, I torbear to dilate on this topic at prefent.

III Bu'gis.—The Bugis may be reckoned the original language of the island of Celebes, in the same may ner as the Javanese is that of the island of Java. This ancient, brave, and martial nation, also, became known to Europeans only in their decline, but there are a variety of circumstances, relative to them, which incline me to regard them as probably more ancient, in the eathern seas, than even the Javanese. In courage, enterprize, sidelity, and even fair dealing in commerce, they are placed at the head of all the orang timor, or eastern men, even by the testimony of the Malays and Javanese then selves, and to compare to them, either the Chinese, or the continental Indo-Chinese nations, were to compare an ass, caparisoned in stiff and gidded trappings, to a generous courser. The nation, to which the Búgis exhibit the greatest resemblance, is the Japanese, but I have not been able to discover that the same similarity exists between their respective languages, which appears in their natural characters.

The island of Celebes was formerly divided into-seven principalities, which were all united under an elective and limited sovereign. In this state, the island was the centre of eastern commerce, and extended its conquests, on the case hand, as far as the island of Bali, and on the other, beyond the Moluccas. The Búgís language was assiduously cultivated, and their ancient mythology, traditions, laws and history, preserved in

books, the greater part of which are still extant, especially in the interior, among the tribes who still adhere to their ancient religion. On the sea coast, the Mahummedan religion prevails, and their books refemble more the later Cheritras of the Malays. In 1603, the Mungkásar sar, Rajah, with the whole Mungkásar nation, by one of the most singular revolutions on record, renounced their ancient religion, and not only adopted Islamism, but compelled a number of the inferior states to imitate their example.

The Búgís language, on the coasts, is much mixed with the eastern Malayu, and is found pure only in the ancient books, and in the interior of Celebes. It exhibits strong features of originality in its vocables, but resembles the Malayu and Tăgâla in its construction. With Malayu, Javanese and Tăgâla it exhibits many coincidences, but it contains, in its original state, almost no words of Sanserit origin. With the ancient Tarnata, or Molucca language, it also exhibits some coincidences, but as I have had no savorable opportunity of studying the Búgís, and none at all of examining the Tarnata, with any degree of accuracy, I cannot pretend to determine the nature of this connection. Compared with the Malayu or Javanese, it has certainly more the air of an original than of a derivative tongue.

THE Búgis alphabet consists of twenty-two letters, which are varied by the six vocalic sounds a, u, i, e, o, ung. The sorm of the character is peculiar, though it appears to belong to the same crass as the Batta and Tăgâla. The power of the characters coincides nearly with that of the Javanese letters, though they differ a little both in number and in the

condiderably, in different states, but the alphabet also varies in the number and order of the letters. This proceeds from the adoption or rejection of the double consonants, which, though used in ancient and classical compositions, are seldom or never employed in letter-writing or common business; and hence, when a Búzsis writes-down his alphabet, it may vary, in the number of the characters, from seventeen to twenty-two. The only Buzsis alphabet, printed or engraved, with which I am acquainted, is that which is given by For-Risi, in a corner of one of the maps of his "Voyage to the Mergui Arch polaga." The letters are not formed according to the common round Buzsis hand, but sharp angled, like the Rajang and Batta character; but in other respects it is sufficiently correct. The Búzsis character is also en played frequently in writing Malayu compositions.

The language of the ancient Búgís compositions displays little diverfity of dialect, but considerable variety exists in the language of conversation, in the different Búgís states. The dialect of Munghásar or Macassar, the bravest and most renowned of the Búgís tribes, differs considerably from the Bugís proper; but the dialects of Lúhú, Enrékang, Mandar, and ofpecially Iä-Rajji, seem almost to be different languages.

THE Bigis language has never been regularly cultivated by Eurothe way, though the Dutch have formed abridgements of some of the
historical relations have hich it abounds. I have formed a short radical
vocabulary of both the Bújis and Mungkisar, but cannot consider it
as pure and unmaxed, being derived from inhabitants of the coast,
though some of them were very intelligent, and tinctured with their pe-

culiar learning. From the same source I obtained the following list of the most popular Búgís compositions:

1.	Nıma Sagúni,	28.	Rotun-risosú,
2.	Batára Guru,	29.	Ligi-ligo,
3	Guru De Sillang,	30.	Tobala Onu,
4.	Tojorisúmpa,	31.	Radaöng Labeh,
5.	Lisini Leléh,	32.	Lunada Romang,
6	Butára Latoh,	33.	Pilawago,
7	Oputolaga,	34.	Lawaju-Lingi,
8.	Araulangi,	35.	Lunapa-puli,
g.	Panori Tawgéh,	36.	Datu-Mowunléh,
10	Lajiri-hoi,	37-	Lilumpang Méga,
TI.	J muri China,	38	Lisawüng Langi,
12	Laurupoysi,	39.	Rotan di Papang,
13	Rotun Nari-Tatta, Datu Nagima,	40.	An Leich,
14	Lamaputoda-Tūripo,	41	Lam spang Aniro,
15	Latum Mullurung,	42.	Lutan-nari-jivi,
16	Lauhdun-Reö,	43.	Bayaj ágúil,
17	Lupa Bichara Luri Sindénaré,	44.	Litupu Sallau,
18	Gutupatalotopal iguna,	45.	Latuj ugulla,
19.	Lappang Nyarisang,	46	Litan nari Pulang,
20.	Opu-Sangmada,	47.	Sitya-bonga,
91.	Opula Maru-Datu-na-Sopéng,	48.	Lisatú ig-piité,
22.	Látu-görána Paju Limpoy,	49.	Ligi lego Tokolingheng,
23.	Siwira Gading,	50.	Litia niroky,
24.	Ademata,	51	Datula-Kila,
25	Rotun Dilíwung,	52.	Lapanidora.
26.	Data Pamúsu,	5 %	Rotan di timang toan laniû.

The greater part of the compositions here enumerated, celebrate the deeds of their national heroes. But besides these, the "Addat," or codes of Búgís law are of considerable antiquity, partire, by those of Gua, Waju, Boni and Mandar; and of great repute, among the eastern tribes. Several of them are translated into Malayu and Javanese. The Koran is also translated into the Búgís language.

27. Linaga Ladúng,

The Búgis songs and romances are famous among all the islands of the East; and, as far as I can judge, from a very limited knowledge of them, equally excel, in force of thought and sluency of versification. The use of rhyme is much less frequent than among the Malays. The melody of the verse depends on the rhythm, and the measure, in the historical poems, has often considerable similarity to some of the species of Sanscrit verse. The following lines are given as a specimen from the "Wépalétei," the only Búgis story in my possession.

Narétélangi napapabaja natokûnruna Wepalétei Lalo salswang pasisi aji rito matindro sésimpangi Rittomapiddang sisulingi matduadua mua kakana Wemapamai natijinruna lalu salswang rútûpanimpa Lakunatillum tirrimakudda Wullirijawa tó Sopengi Jillokasawa kakapamai sümpuna China tujuna Sabang Naranrukië Lajutenso sesumangutnah Paslaüngé Mabaliada wemapamai richinaruna kuem mua Megama katu tudangpaliuna linna samanna tuributili Lolangungé turipasabi ujutanai tádillersé Muariniss aŭlaün patalutuna lolangungé.

"In the morning twilight, when the day began to dawn, awaked Wépalétei, and went out of the palace, stepping carefully over those who were sleeping in regular rows, and those who were reposing irregularly, where her elder brothers were sleeping two by two, and along with her went out Pamai, her nurse and attendant. Wullishiawa of Sopéng, went forth, and having opened the beautifully formed window, began to express a result of the second of the se

rest on the stately trees of China, as if they had been arranged by art. How beautiful are the lawns, which seem as if the earth had of her own accord accommodated herself to the request of man. How graceful wave the trees, with their soliage to the view, and the golden bamboo's which enclose the lawns."

The Búgis fongs are very numerous. Some of them are short proverbial maxims versified, and display considerable force of both thought and language, but I have not met with any which exhibit the peculiar charaster of the Malayu Puntún. They however exhibit many traits of the peculiar manners of the Búgis tribes. In the following specimens, the sirst alludes to a very common mole of punishing cowardice in Celebes, the second to the practice of poisoning weapons, and the last is a brief dialogue between a lover, going to battle, and his mistress, who presents him with her betel-box as a parting token:

Tikungi talasei joa maliäi
Tapasilasei andraguru maliäi
Corripe militem segnem, castra,
Immo ducem timidum castrato.
Tillu ritumati balubalu rilleseang
Ria paserakane lannu tojirru
Tümera ritirisebu dadi aju ta Sangala.

There are three articles exposed to sale

In the class of combat—the temper of the lance—

The form of the bullet—and the gum of the poison tree of Sangala

Eja ripalinrūng ajamu marakka filla
Rikóä biritta poli riálapi sia
Raja-Tú npa rikapéku muïnappa rinnawating—
Tilla returona falina lopalopaku
Sapahna rikko otáko tindria pauwa
Timmúnroä patūparūng tindria kampulajangang.

Eja! object of my secret affection, be not easily moved to grieve,

Whatever news arrive from the battle, till you see

My kris Raja Tumpa taken from my girdle, but then grieve for the dead——

There are three prohibitions in my betel-box, with which you must conform:

They are wrapt up in the folds of the betel leaf,—talk not in the time of action——

Loiter not idly within your tent—skulk not as you advance on the foe.

THE Mungháshr poetry is characterized by the same seatures as the Búgís, and their national wars with the Dutch is said to be a savourite topic among the poets of that race. The following specimen, which is a poetical challenge, alludes to the diversion of cock-fighting, the savourite amusement of the nation.

Kérimi jangang riwaya bija jangang fundawa Niamiunné búngafa tinumbukkéya—— Bukki tonja kontafilla púna inukké núrúntu Tinumbukkéya bára éyapún nifillung.

Where is that quarageous cock, that true game-cock, trained to combat—For here is his match, full of youthful spirit, yet unconquered——Let him then enter the lists with me, if he would be conquered; Hitherto invincible, if I am ever conquered, it will be now——

IV. Bima.—The Bima language is used in the independent state of Bima, which includes the eastern part of Sumbawa, and the western part of the island Endé, which was childishly denominated Flores, by the early Portugueze navigators; and, after them, by succeeding voyagers and geographers. If my information is correct, the Bima language extends over the greater part of the island Endé. The Bima language is related in some respects to Búgís and Javanese, and on the coast is mixed with Malayu, and nevertheless it has strong pretensions to originality in its pronouns, verbal auxiliaries, and simple names of objects. In those instances, in which it exhibits a relation to the Búgís, it seems

to be more closely connected with the Mungkasar than the Bugis proper, and yet, in sentences, the difference is striking, as in the following example. "Where is the house of the Rajah?" Bikey kuassi rumata sangngaji. (Bima) Kéré tujuna embana kérayéng. (Mungk) The sun, in Bima is termed Mata-liro; in Mungkásar, Matulo; in Búgís, Mataso. A man, in Malay, orang, is, in Munghusar and Bugis, tau; and in Bima, do. The dialect of Sumbawa, which prevails in the districts of the island of that name, which are not subject to the Sultan of Bima, is of a more mixed character, and though it appears to contain many original vocables, yet the mass of the language seems derived from other sources. as Bima, Javanese and Búgís. Neither the Bima nor Sumbawa have any peculiar character, but use, indifferently, the Búgis or Malary. I attempt. ed to investigate the relations of both of these languages, by forming comparative vocabularies, of radical words; but not being able to procure any compositions in either of them, I do not flatter myself with having been able to obtain the purest native terms in every instance.

Specimen of the Búgís, Mungkásar, Bima and Sumbawa languages.

	Bûgls.	Mungkúsar.	Bima.	Sumbawa.
_	\[ie	inukké	nahu	űk, kaji
1	' {i v o	iyo	lamada	déya
we	Ídi	ikaté *	' Îta	kita
thou	mu	ikau	angomi	mu .
you	iko	ikau-ngáling	gomi	kau *
he	eä neä	yenjo	feä ,	iya
they	eämanúng	yangaling	do ÉJÉ	jija taünan
this	iäé	yeïnné	aké '	ta ta
that	yero, yetu	anjoreng	édé	, ' to

4	٠.	-	4	_
2	,		ч	3

,	Eúgis.	Mangkásar.	Bima.	Sumbawa.
who	iga, niga	inai	choété	" ſaí
what	aga	apa	au	komépo
where	pegi	kemi	benchi	mépo
when	fiana	ungapana	bunéëi	pidan
which	kéga	kerayéng	mabé	fangmépo
is	unka '	nia	Wara	adda
WiH	mélo	eroko	né	TOR.
can	makúléh	kúlégi	Vati	bau
fun	matafo	matalo	matal ro	matahari
moon	vlúng	búlun	wúra	búlun
fter	vitóing,	bintoéng	tara	bintang
wind	anging	angi	angi	angin
tain	poli	poli	ura	Gjin
day	alo	alo	lira	ano.
might	Astrona	bungī	aimangadi	anopotang
morning	IN THE WAY.	beribafa	eimalidi 📌	anoliop
evening	arawéng	karvéng	aimumbiyang	anoravi
year	taûng	taung	bañ.	terð
earth	tana	bútta	dana	bu mi
Water	tıwaï	jéné	oi	aik
fea	ងេ៍	tamparang	moti	lét
river	falók	binang a	nanga	pungbur ang
WAVO	bomba	bombang	ba'úm ba	om2k
fand	kali	kafi	Larei	garlék
mountain.	búlúk	monchong	doro	olat
fire	≜ pi	pépé	afi	a pī
A one	batú	batú	watû	bato
gold	ulawüng	bulayeng	málang anga	bulayeng
filver	faláka '	faláka	faláka	G aláka
Salt	päjé	chéla	siya	aira
iron	biffi	basi	beli	pofi
lead	túmera	tümbéra	tumbinga	tima
brais	tümbagş	túmbaga.	romba	tomage
white	maputi ,	kébok	lanta	puti
black	malôtong	leling	meë	pifak
red	machillah,	eja ,	kala	méra
Jellow	maŭni	kuni	moncha.	kúning

	Búgis.	Munghosar.	Bima.	Sumbawa.
green	monchembale	ijow	RWA	ijow
blue	magail	gan	kolúbu	kolau
ត្រូវ	balé	j 6k u	londé	ampa
fowl	manu	jangang	janga	ayam
bird	manu-manu	jangang-jangang	nafi	piyo
tiger	machang	machang	machan	machan
forpent	vla	ulara	faw a	ula
sheep	bembé	bembé	bé ë	badéfa

This specimen of a comparative vocabulary, will convey some idea of the actual flate of these languages, and of the actual variety which subfilts in the language of conversation, especially on the coasts and maritime districts. Many of the words which occur in one language, are also found in others, though generally with some difference of pronunciation, and sometimes in an oblique sense. Frequently too, befides the terms which I have felected, which are only those of current use, several other words of the same signification might be found within the compass of the language. Thus, instead of anging, wind, in the high Búgís, salarúng occurs in this fignification; and instead of saláka, wiver, bulemata occurs in the high Munghasar dislect. In the same manner, the personal pronouns in Bugis terminate their plants in manung; and in Mungkasar in ngasing, both of which fignify all. Thus, (Bug.) idimanung, (Mung.) shuttengasing, we all. (Bug.) shomanung, (Mung) ikaungásing, you all. (Bút.) eamanung, (Mung) yenjo yangngasing, they all. It is worthy of observation, that the Udia language poken in Orissa, forms the plural of its personal gonouns by the addition of the particle mané, or manang, like the Bugis. Thus, in Udia, umbhémane, tumbhémaní, sémané or émané, fignify we, ye, they

V. BATTA.—The Batta language, which I regard as the most ancient language of Sunatra, is used by the Batta tribes, who chiefly occupy the centre of that ill and. The fingularity of their manners, and in particular the horrid custom of anthropophigy, practifed by a nation in other respects more civilized than the Malays by whom they are furrounded, has attracted the attention of Europeans from the time of the earliest voyagers to our own times, but no very satisfactory account, has ever been given of them, as a nation. The best description of them is certainly given by MARSDEN, in his history of Sumatra, but even that is very imperfect and superficial, and at variance, in some respects, which the information I received from individuals of the nation. MARSDEN confines their cannibalism to two cases; that to apersons condemned for erimes, and that of prisoners of war; but they themselves declare, that they frequently eat their own relations, when aged and infirm, and that, not so much to gratify their appetite, as to perform a pious ceremony. Thus, when a man becomes infirm and weary of the world, he is faid to invite his own children to eat him, in the feason when salt and limes are cheapeft. He then ascends a tree, round which his friends and offspring af semble, asia as they shake the tree, join in a funeral dirge, the import, or which is, "The season is come, the fruit is ripe, and it must descend." The victim descends, and those that are nearest and dearest to him, deprive him of life, and devour his remains in a folemn banquet. account is certainly more likely to excite incredulity than the account of Marsden, but it is the account of some of the Battas themselves. as well as that of the Malays in their vicinity. This inhuman cultom is not, however, without a precedent in history, for HERODOTUS post-

tively afferts, that the Paday or Padaivi, about 500 years before our æra, were not only addicted to the eating of raw flesh, but accustomed to kill and eat their relations when they grew old. Now it is curious that Batta or Batay, for the name is written both ways, seems to be the very word which, in Greek, is rendered Padasoi, the letter p being almost always pronounced b among several of the Indo Chinese nations, as in the word Pali which is almost always pronounced Bali. The following is the account which HERODOTUS gives us of the Paday, or Padaioi. " Another Indian nation, who dwell to the eastward of these, (the Indian Ichthyophagi) are of nomadic habits, and eat raw flesh. They are called Paday, and are said to prastife such customs as the following. Whoever of the community half kan or woman, happens to fall fick, his most familiar friends, if it is a man, kill him; faying, that by his pining in sickness, his sless will be spoiled for them; and though he deny that he is fick, they do not attend to him, but put him to death, and feast on him. When a woman falls fick, she is treated in like manner by her most intimate female affociates. They also sacrifice and feast on him who arrives at old age, and this is the reason that so sew of them ever attain it, for Hey kill every one who falls fick, before that period." The count of HERODOTUS certainly corresponds very minutely with the customs attributed to the Batta race, and renders it probable that this modern nation derive their origin from the ancient Paday or Batay. Neither is it more incredible that the Battas should eat human slesh, as a religious ceremony, than that anthropophagy should be practifed by the class of mendicants termed Agora Punt'h, in Bengal, and other parts of India, which

^{*} HERODOT. Lib. III. s. 99.

is a fact that cannot easily be called in question. It is: surprising that this singular custom has received so little investigation.

THE names of the different Batta tribes, of whom I have been able to hear, are the following—

- 1. Batta Sebalanga,
- 2. Batta Padembanin
- 3. Batta Kwalu,
- 4." Batta Panmay,

- 5. Batta Toru,
- 6. Batta Bila,
- 7. Bitta Kirrülang,
- 8. Batta Sipagaby.

In many of the Batta customs, considerable similarity to those of the Nairs of Malabar may be traced, as in the law of inheritance, according to which it is not the son, but the nephew, that succeeds.

The Batta language has considerable claims to originality, though it is not only connected with the Malayu, but also with the Búgis and Bima languages. In point of construction it is equally simple as the Mulayu, but it is with the Búgis that it seems to have the most intimate connection. Indeed, the manners of the aboriginal Búgis are supposed to have exhibited no small resemblance to the peculiar customs of the Batta nation; for the Rajja or Tă-Rajja tribe, in their central parts of the island Celebes, are faid still to eat their prisoners of war. The Batta language is the chief source of that diversity of dialect which is discoverable in the languages of Sumatra. The Räjing or Rejang dialect is formed by the mixture of the Batta and Malayu: the Lambúng, by mixing Malay and Batta with a proportion of Javaneses. The Karrows, who are subject to Achi or Achin, use only a slight variation of the Batta language, while the larguage of Achi proper consists of a mixture of Malayu and Batta, with all the jargons used by the Mos-

lems of the east, whether Hindustani, Arab-Tamul or Mápilla. The Achinese resemble the Mápillas of Malabar more than any other tribe of Malays: they have long been connected with them as a people, and use many Mápilla terms currently in their language. The dialects of Néas and the Progry islands, the inhabitants of the latter of which are termed Mantaway, by the Malays, have perhaps greater pretensions to originality than easy of the dialects of Sumatra, but resemble the Batta more than any other dialect. Hence it may be suspected, that if we were acquainted with the books of the Battus, and knew the full extent of their language, in all its variety of expression, elliptic phrases, and obsolete words, the coincidence would be still more striking. There is probably, too, some diversity of expression in these dialects seven in their present state, for in forming a short radical vocabulary of the Néas language, I found it differed considerably, in some instances, from the specimen published by Marsden, in the sixth volume of the Archaelegia.

THE Batta language has been cultivated by writing, from the earliest times, and numerous books are said to exist in it. I have only been able, however, to procure the names of the following—

- z. Siva Marangaja,
- 2. Siva-Jarang-Mundope.

- . Roja Isiri,
- 4. Malamdeva.

THE Batta alphabet is peculiar, both in the form of its characters, and in the order of their arrangement. It consists of nineteen letters, each of which is variable by fix vocalic founds like the Búgís. In the power of the letters, it nearly corresponds with the Búgís and Javanese alphabets, the difference between all these being extremely trifling, consisting

folely in one of them expressing two cognate sounds by one character, or adding a new character, or the modification of a character, to express a double confonant of frequent recurrence. But the Batta character has another peculiarity; it is written neither from right to left, nor from left to right, nor from top to bottom, but, in a manner directly opposite to that of the Chinese, from the bottom to the top of the line, as the Mewisans are to faid to have arranged their hieroglyphics. The material for writing is a bamboo, or the branch of a tree, and the instrument for writing the point of a kris, consequently their native forests always furnish them with materials in abundance, and instead of our pages and volumes, they have their bamboos and literary faggots. MARSDEN has given a tolerably correct Batta alphabet, in his history of Sumatra, but instead of placing the characters in a perpendicular line, he has arranged them ho-. recontally, which conveys an erroneous idea of their natural form. The Buttas, sometimes, read their bamboos horizontally inflead of perpendicularly, as the Chinese and Japanese do their books, but the Chinese confider the correst mode of reading to be from the top to the bottom of the page, and the Battas from the bottom to the tops. The lines at the top of a Chinese page are always regular, and if a line terminates in the middle! of the page, the blank space is towards the bottom; now the Bathar fometimes write on growing trees; and in this case, if a blank space oceurs, it is towards the top of the division, a circumstance which determines what they consider as the natural position of their characters. The Batta characters, when arranged in their proper position, have considerable analogy to the Búgis and Tágála. The Lampung and Rejang characters coincide in power with those of the Batta, though the arrangement is different, and so far from being considered as original alphabets, they are only regarded, as far as I could learn, by the Battas, as different forms of the same character. Indeed, the greater part of the differences they exhibit in form, may be fairly attributed to the different materials on which they write, and the different manner of writing; while the diversity in the number and arrangement of the letters may be referred to the same causes which have produced a similar variety in the Búgis alphabet.

VI. TAGALA.—The Tagala or rather Ta-Gála or the Gald language is among the Philippines, what the Malay is in the Malay islands or the Hindustani in Hindustan proper. A Spanish missionary, who! possessed a minute knowledge of this language, has declared, that "The Tagala possesses the combined advantages of the four principal languages in the world. It is mysterious as the Hebrew; it has articles for nouns, both appellative and proper, like the Greek; it is elegant and copious as the Latin; and equal to the Italian, as the language of compliment or business." To examine rigorously the justness of this eulogium, is foreign to my purpose; it is necessary only to state, that it onsidered by those who have studied it with most attention, as the radical language, from which the greater part, if not all, the dialects of the Philippines are derived. A missionary, who had resided eighteen years in these islands, and whose account of them has been translated from the Spanish, and printed by THEVENOT in the second part of his Relations de divers Voyages Curieuses. Paris 1664," declares, that though every district has its particular dialect, yet that these have all fome relation to each other, such as subsists among the Lombard, Sicilian

Tuscan dialects. There are fix dialects of this kind, in the island of Manila, and two in Oton. Some of these are current in several islands, but the most general are the Tagala and Bisaya, the last of which is very gross and barbarous; but the other more refined and polished. The opinion of this missionary is confirmed by Fra. Gaspar de San Augustan, who asserts, that all these particular tongues are dialects of one general language, in the same manner as the Attic, lower and Eiles, are all dialects of Gieck, or as the Italian, Spanish, Portugueze and French, are all derivatives from the Latin.

The Tăgâla language has been cultivated only by the Spanish missionaries. The Tăgâla grammar of Fra. Gaspar de San Augustin, which has passed through two editions. was planted in 1703, and again in 1787. In his presace, he requests those who are delirous of more numerous examples in the language, to have recourse to other grammars, especially, to that of Fra. Francisco de San Joseph, who is essewhere called the Demosthenes of the Tāgâla language. A consessional, by the same author, in Spanish and Tāgâla, was published in 1713, and republished with the second edition of his grammar. In 1627, Fra. Alphonso & St. Anna published his "Explicacion de la Doctrina Christiana en lingua Tăgâla," and, besides these, many other religious compositions, both in prose and verse, have been published by the missionaries.

THE Tagala alphabet consists of seventeen letters, three of which are vowels, and sourteen consonants. It is of the same class as the Búgis and Batta alphabets, and resembles them much in sorm: and, it is probably from some idea of this similarity, that FRA. GASPAR DE SAN AUCUSTIN, afferts that the Tagala characters were derived from the Malays.

The Tăgála character is as difficult to read as it is easy to write. It is written with an iron style on bamboos and palm leaves, and the Spanish missionartes affert, that the ancient mode of writing was from top to bottom, like the Chinese. From the circumstance of their writing with an iron style on bamboos, and from the resemblance of the letters to the Batta character, I should rather imagine that the ancient Tăgâla mode of writing was from the bottom to the top. The Tăgâla characters are still used in Comintan, and in general among the Tăgâlas who have not embraced christianity; and even by the Christian converts, they are still preserved in epistolary correspondence, though the contrary has been infinuated by some of the missionaries, who alledge that the roman alphabet was eagerly adopted, on account of its being more easily read.

The Tăgâla language, with a considerable number of peculiar vocables, and great singularity of idiom, is nevertheless to be considered as a cognate language with Malayu, Bûgîs and Javanese. Few languages, on a cursory examination, present a greater appearance of originality than the Tăgâla. Though a multitude of its terms agree precisely with shose of the languages just enumerated, though the more simple idioms are precisely the same, and though the nouns have neither, properly speaking, genders, numbers nor cases, nor the verbs, moods, tenses or persons, yet the idioms are rendered so complex, and the simple terms are so much metamorphosed, by a variety of the most simple artifices, that it becomes quite impossible for a person who understands all the original words in a sentence, either to recognize them individually, or comprehend the meaning of the whole. In illustrating, thesefore, the mecha-

pilm of language, sew languages are more instructive than the Tagüla. The artifices which it chiefly employs, are the prefixing or possining to simple vocables, certain particles, which are again combined, and coalesce with others; and the complete or partial repetition of terms, in this reduplication, may again be combined with other particles.

THE Tagaila forms the plurals of nouns by the word manga, as the Malays by banyá'k, both of which fignify many, and feem to be the very same word, as the m and b are often pronounced in such an indistinct manner, in the Indo-Chinese languages, that they feem neither to correfpond exactly to our m nor our b, but to an intermediate found. To proper names, the Tagala prefixes the particle si, and ang to appellative nouns. The first of these corresponds to the Malayu sa, and the latter to yang, both of which are frequently used in Malayu in the same manner; but the Tagula combines both these with the particles nya and kx, the first of which signifies of it, and the latter to; and thus they form sina, kana, ninz, nang, which, (except the last, which is only a different mode of writing the Malayu nyang, of these, who,) scarcely occur in Malayu. The lural of nouns, in Malayu, is sometimes formed by the repetition of the fingular, and sometimes this repetition is not complete, but confifts only of the first syllable or syllables. This also occurs in the Tagala, in which language banal, the Malayu banar, fignifies just, true, and tavo fignifies a man, corresponding with the Bugis tau. A just man, in Tagála, is therefore, ang banal na tava or by the addition of another particle, and altering the position of the words, ang tauong banal. Now if we substitute the Malayu word orang, for The Bigis and T_{ab} ala term tax or tave, we may render both these sens

plural, to fignify, just men, the Tagala gives, and manga tauong babanal, to which the corresponding Malayu phrase is, mang banyak orang manga babenar; or again in Tagala, and babanalna manga tauo, to which the corresponding Malayu is, mang babanalna manga tauo, to which the corresponding Malayu is, mang babanarnya banyak orang.

THE fimple pronouns, which vary so much in all the dialects of the eastern seas, are nearly the same in Tagála and Malayu, though it is not very easy to recognize them in the former language when combined with particles. Thus in the first person ako, ko, kita, kami are pure. Malayu; and in the second person, mu corresponds equally with mo, while ikao and iyo feem to be only trivial variations of the Malayu ungkau and ayo. In the third person siya is only a variety of sa yea like siappa for sa-appa; who, in Malayu; while niya, of him, his, is pure Malayu, as are itu, that, and nin of this, while yan, this, and yain, that, correspond to ini and anu. Lt is however chiefly in the verb that the peculiar character of the T_d . gala language displays itself. The substantive verb is generally omitted altogether, and its meaning is denoted by implication, or the position of the words in a sentence. Sometimes, however, it is expressed by the article ay, the contraction of the Malayu adda, as Sino ang manipag? Who is diligent? or rather, Who is he who is diligent? Ang masipag ay si JAGULA, it is JAGULA that is deligent, or literally, he who is deligent is one JA-GULA.

THE Tagala verbs being only names of actions or states of existence, they cannot properly be said to be either active on passive, neither have they any persons, numbers or moods: all these being expressed by parasicles presided or possifixed to the radical word. The principal parasicles presided or possifixed to the radical word.

sicles employed in modifying the Tazala verbs are also common to the Malayu language. The Tegala particles are no, nag, mag, pag, ungm, y, an, in: those which correspond to them in Malayu are na, nyang, meng or mé, peng, yangmeng, yang, an, ahin. Their significations are radically the same, nor do they differ essentially in their simple application; but in the variety of modes according to which these particles may be combined with the verb, in its simple form, in its reduplicate form, in its semi-reduplicate form, and the variety of transpositions of letters and the changes of one letter for another, euphonia gratia, which all these combinations give occasion to; in all these, the Tagala is infinitely superior to the Malayu, if there is any merit in a superiority which consists in greater intricacy. The changes which occur in Malayu are few and obvious, in Tagala they are digested into an extensive and complex system, in which perfect familiarity with every form that the word can assume, not only by the addition of particles, but by the interchange of letters, is necessary to enable asperson to detect the radical, which is often more disguised than in the most complex Arabic derivatives. Thus in Tărâla the root tolog signifies to sleep, natalog ako I slept, natotolog ako, I am sleeping, matalog, sleep, mitotolog ako, I will sleep, kitolog, pagkatolog and pagkakatolog, sleep. ing, natotologpa ako, I slept or was sleeping, ang natotolog, the sleeper, ang matotolog, the person who is to sleep; makatolog ako, I had slept: natologan, the having been affeep, natotologan, the being affeep, katologan and katotologan, the being asleep, or act of sleeping, or the sleeping place: and for the plural nangatologan, nangatotologan, pangatologan, pangatotologan &c. the particles na, ma and pa, becoming nanga, manga and panga, in the plural. This is an instance in which the changes of the radical word

are very obvious; in the following they are less so, butat to list; bungmuhat, bungmubuhat, bumuhat, bubuhat, pagbuhat, nakubuhat, nabuhat, binubuhat, buhatin, bubuhatin, nagpabuhat, nagpapabuhat; magpapabuhat, magpapabuhat, pagpapabuhat, pagpapabuhat, pinabuhat, pinabuhat, muhat, namuhat, namumahat, mamuhat, mamumuhat, pinamumuhat, pinamumuhat, pinamumuhat, pinamumuhat, pinamumuhat, pinamumuhatin. The addition of a greater number of particles would still produce a considerable number of additional metamorphoses, in which it would be very difficult to recognize the original radical bahat; but these may suffice to shew the genius of the language; and they will also tend to shew the extreme danger that apy etymologist or grammarian incurs, who presumes to treat of one of the eastern languages without a radical knowledge of it, and even, in some degree, of its cognate dialects.

The greatest desects of Fra. Gaspar de S. Augustin's Tagala grammar proceed from his not having comprehended sufficiently the original simplicity of the dialect, nor even the simple artistice by which the greater part of these changes have been effected; and from having composed his grammar on European principles, without attending uniformly to the peculiar character of the language.

WITH respect to the original literature of the Tagalas, the accounts of the Spanish missionaries are rather discordant. Sometimes they represent them as totally devoid of histories, and books of science; and sometimes they represent them as in possession of many historical poems; not considering that almost the whole body of eastern history must be gleaned from poetical tradition. It however appears, clearly enough, from their own ac-

counts, that the ancient religious traditions of the Tagala race, their genealogies, and the feats of their gods and heroes, are carefully preserved in historical poems and fongs, which, in their youth, they carefully commit to memory, and are accustomed to recite during labour and long voyages, but particularly at their festivals and solemn lamentations for the dead. These original memorials of the race, the missionaries have, with pious care, attempted to extirpate, and have employed themselves fedulously in composing tracts, both in profe and verse, in the Tăgâla, with the home of supplanting the remains of national and pagan: antiquity. Many salms and hymns, and even some of the Greek dramas composed by Dionysius Areopagita, have in this manner been translated into the Tăgâla language. Among this brood of Tăgâla poets,. the names of Fra. Antonio de S. Gregorio, of Fra. Alonso de S. Ana, and of Fra. Pablo Clain, the translator of Kempis, into Tagála, are celebrated, but the most illustrious of them all, says the reverend father Gaspar de S. Augustin, is Fra. Pedro de Herrera, the very HORACE of the Tagála language, as appears by his book of "Postrimerias." With the original Tăgála poetry I am unacquainted, and I believe no specimen of it has been hitherto published. S. Augustin, in his grammar, treats, indeed, of Tagala poetry, but he piously confines his examples to the works of his ghostly brethren. He observes, that the Tăgála verse, is only regulated by the rhythm of the syllables, and the similarity of the vowels in the close. This similarity of the terminating. vowels does not amount to regular rhyme, for the confonants may be totally different, though the vowels are sim lar, as in the Spanish rhymes termed Asonantes. Thus laglag and taltal sút and cahuy, silip and bukkir,

However impersect as rhymes, are all that is required in the terminations of Tagála verse. The Tagála metres, adds the same author, are rather lyric than heroic, and he adduces specimens of several Latin and Castilian measures, imitated in that language, besides a legitimate sonnet, addressed to himself, on publishing his Tagála grammar by FRA. JOSEPH DE EL VALLE. The following specimen from the Tagála version of one of the dramas of DIONYSIUS AREOPAGITA, is an imitation of the somic verse of TERRICE.

Dito sa dakkilang kaharian nang Grecia Ay itong bayannang Athenas lalo, at mona Sa ibang manga bayang na sasakop baga Hangan saona, at magpangayon pa,

Besides the Tagála nation, there are several other races, which inhabit these islands, who differ considerably from each other in seatures, language, and the various relations of the social state; but concerning them, it is more difficult to speak with any degree of certainty. Such are the Pampangos, who reside to the north of Manilla; the Bisáyas, who are generally diffused over the Philippines; and the painted race, termed, by the Spaniards, Pintados, who are, by some, reckoned a branch of the Bisáya nation, and allied to the Tagála and Búgís races; while, by others, they are supposed to be of the same origin as the Harasoras.

Or the Bisaya language, I have seen some lists of words. It appears to be either mixed with Tagála, or derived from the same source; but it is seldom possible to judge of any of the eastern languages from a sew straggling specimens, formed in the hurried, inaccurate and incurious manner in which these are generally collected. For this reason, I shall offer no observations on the Pampango language, of which I have also seen.

specimens; on the Biaju, Tirún, or Idán languages of Borneo; nor on the Harafora, or the Papua languages of the eastern isles. The Súlú tongue is a very mixed dialect, but is derived chiefly from the Malayu, Javanese and Tăgala. Fortest, however, is inclined to refer its peculiarities to the Bisaya. The language of Melindenow, or Magindano, which nearly coincides with the Lanún dialect, is also a compound of Malayu, Búgís and Tăgăla, with a certain proportion of the ancient Tarnata or Molucca langrage, which seems to have been an original tongue. The Biaju language is reckoned original, but it has no written character. The Biajús are of two races; the one is settled on Borneo, and are a rude, but warlike and industrious nation, who reckon themselves the original possessors of the island of Borneo. The other is a species of sea-gypsies, or ininerant sishermen, who live in small covered boats, and enjoy a perpetual summer on the eastern ocean, shifting to leeward, from island to island, with the variations of the monfoon. In some of their customs, this singular race resemble the natives of the Malding islands. The Maldinians annually launch a small bark, loaded with persumes, gums, slowers and odoriserous wood, and turn it adrift at the mercy of the winds and waves, as an offering to the Spirit of the winds; and sometimes similar offerings are made to the spirit whom they term the King of the Sea. In like manner the Biajus perform their offering to the god of evil, launching a small back, loaded with all the fins and misfortunes of the nation, which are imagined to fall on the unhappy crew that may be fo unlucky as first to meet with it.

THE Tirún or Tedong tribes live chiefly on the N. E. coast of Borneo, and are reckoned a savage and piratical race, addicted to eating

the flesh of their enemies. With their language I am totally unacquainted, but it is reckoned peculiar. It is very probable, however, that they are only a tribe of Idán, whom, again, I imagine to be only a race of Haraforas or Alfoërs, as they are termed by the Dutch, who feem to the most ancient and original race of all the eastern islands, execepting, perhaps, the Papuas. The Idán are sometimes termed Marút; they are certainly the original inhabitants of Borneo, and resemble the Haraforas equally in stature, agility, colour, and manners. The Haraforas are indigenous in almost all the eastern isles, and are sometimes found on the same illand with the Papuas or oriental negroes. They are often lighter in colour than the Muhammedan races, and generally excel them in strength and activity. They are universally rude and unlettered, and where they have not been reduced to the state of slaves of the foil, their manners have a general relemblance. In their manners, the most singular feature is, the necessity imposed on every person, of fome time in his life, embruing his hands in human blood; and in general among all their tribes, as well asthe Idan, no person is permitted to marry till he can shew the skull of the man whom he has slaughtered. They eat the flesh of their energies, like the Battas, and drink out of their skulls; and the ornaments of their houses are human skulls and teeth, which are, confequently, in great request among them, as formerly in Sumatra, the ancient inhabitants of which are faid to have originally shad no other money than the skulls of their enemies. The Haraforas are found in all the Moluccas, in Celebes, the Philippines, and Magindano. where they are termed Subano or Manubo; and the ferocious race mentioned by Marsden, who live inland from Samanka in Sumatra, and

are accustomed to atone their own faults by offering the heads of strangers to the chiefs of their villages, are probably of the same description.

THE Papuas, termed by themselves Igolote, but by the Spaniards of the Philippines, negritos del monté, from their colour and woolly hair, are the second race of aborigines, in the eastern illes; in several of which they are still to be found, and in all of which they feem to have originally existed, Some of their divisions have formed small savage states, and made some attvances towards civilization; but the greater part of them, even with the example of more civilized races before their eyes, have betrayed no symptoms, either of a taste or capacity for improvement, and continue in their primitive state of nakedness, sleeping on trees, devoid of houses or cloathing, and subfishing on the spontaneous products of the forest, or the precarious success of their hunting and sishing. The natives of the Andamun isles seem to be of this race, as also the black mountaineer tribes of the Malay peninfula, termed at Kiddeh, Samang; at Perak, and in the Malay countries to the N. W. of Kiddeh, Bila; while to the fouthward of Pera'k, and through the straigs of Malacca, to the eastward, they are termed Diyak. The Papuas, or oriental negroes, seem to be all divided into very small states or rather societies, very little connected with each other. Hence their language is broken into a multitude of dialects, which, in process of time, by separation, accident, and oral corruption, have nearly lost all resemblance. The Malays of the peninsula, consider the language of the blacks of the hills as a mere jargon, which can only be compared to the chattering of large birds; and the Papua dialects, in many of the castern isles, are generally viewed in the same light.

The Arabs, in their early voyages, appear to have frequently encountered the Papuas, whom they describe in the most frightful colours, and constantly represent as cannibals. They are mentioned by the travellers IEN WAHAB and ABU-ZEID, in the Silsilet-al-Tuarikh, translated by RENAUDOT, and nearly the same accounts seem to be repeated by Ma-SUDI. YMKETI and IBN AL WARDI. The following passage, which gives the name of one of the tribes, is adduced from the Persic treatife termed Seir ul Aklim, the author of which appears to have visited the eastern islands. After mentioning the great island of camphor, probably Borneo, he adds, "Beyond this are other islands of different fizes, among which there is one of confiderable extent, inhabited by a race of blacks termed Kahálut, who resemble brutes in form, and when they can seize on a person, they kill and eat him. Of this practice, I have had experience, having escaped only by throwing myself into the sea; as the faying is, 'when you are going to be flain, throw yourself into the sea, and perhaps you may survive.' Even so it happened to me, for getting on the trunk of a large tree, I kept my hold for three days, when I was thrown by the force of the winds and waves on a defart shore, and after enduring much hunger and thirst, reached, at last, an inhabited country."

The tribes of the eastern islands exhibit a variety of singular and interesting appearances, not only in the civil and political, but also in the natural and moral history of man. If some of them appear in a naked and primitive state of barbarism, in others the vestiges of ancient art and science indicate, that they have suffered a relapse from a prior state of civilization. This is particularly obvious among the Malay, Javanese, Batta and Búgis tribes, among whom the polished

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te, and elevated fentiments, of many of their compelitions, and their dexterity in some of the arts, especially the compounding and working of metals, form a fingular contrast with the neglect of perfonal morality and the relaxation of all the bonds of fociety; while ancient and wife regulations are in a great measure superfeded by the most absurd and barbarous usages. Among the most barbarous of the Harafora and Papua races, there are some, who whether male or semale, use no species of cloathing whatsoever, and consequently exhibit few traces of that modesty which is supposed to be innate in the human species. The same phænomenon, whether natural or produced by situation, is exhibited among the Biajus, the families of whom live constantly together, on the sea, in small boats. Vestiges of cannibalism appear to exist among the greater part of the rude tribes in the eastern isles, but the Battas of Samatra, who are superior to the Malays in the knowledge of the arts and letters, have likewise preserved it; as well as the Tabunka tribe in Celebes. Of many of the most abfurd, unnatural and barbarous of their usages, it is obviously impossible to form a just opinion in the present state of our knowledge, as we are totally ignorant of the spirit of them, and of the system of opinions with which they are connected. Some of them may find a parallel in India and China; and it may be observed, that both the Indian and the Indo-Chinese monuments contain many allusions to a state of society and manners on the continent similar to that which subsists among the most barbarous of the tribes of the castern isles. Perhaps, too, we shall be disposed to regard, with some degree of complacency, the most absurd and the most illiberal portions of the religious systems of BRAHMA

and Budd'HA, if we consider the dreadful superstitions that they probably supplanted, and the brutal state of savage existence which they exchanged for civil polity and social order. The Vanaras of Hunuman are reckoned a tribe of mountaineers, even by many of the Hindús. The barbarous, but brave and active Idán of Borneo are termed Marút, which is the Sanscrit name of the forty-nine regents of the winds, and companions of INDRA. The standard of the Battas is a horse's head, with a flowing mane, which seems to indicate a connection with the Hayagrivas of Sanscrit history. In the present state of our knowledge of these tribes, however, it is not conjecture, but rigid and accurate, description that is required; and, in the present instance, it is not my object to consider their civil, political or moral relations, unless as far as these affect the philological investigation of their languages and literature. As the chief utility that results from the examination of some of these ruder dialects, is to enable us to ascertain the limits of languages, more interesting, and important, perhaps it may be thought that great minutenels would be misapplied on objects of such secondary importance, It must, however, be recollected, that success in important researches, often depends on the accuracy with which inferior investigations have been conducted; that, in commencing an investigation it is not always eafy to predict what will ultimately prove of superior, or inferior importance: and that, at all events, it is fafer to bestow too much attention. than too little, on what must be the basis of historical investigation. In all such inquiries, I therefore do not hesitate to adopt the sentiment of the learned LE LONG, that "Truth is so interesting and satisfactory,

when perceived, that no pains should be spared to discover it, even in the smallest matters."

VII. RUKHE'NG.—The Rukheng is the first of that singular class of Indo-Chinese languages, which may be properly termed monofyllabic,. from the mass of their radical words confisting of monosyllables, like the spoken dialects of China. These monosyllables are subjected to great variety of accent, and intonation, in almost every instance: and require an accuracy of pronunciation and a delicacy of ear in speaking and comprehending them, far beyond what is requisite in the languages of Europe, or even in the polysyllabic languages of Asia. The Indo-Chinese languages of the monofyllabic class, borrow a confiderable variety of terms from the Pali or Bali, which exists among them, as the language of learning and science; but in adopting these polysyllables, they accommodate them to their peculiar enunciation, by pronouncing every syllable as a distinct word. The Rukhéng is the language of the original inhabitants of Arakan, who adhere to the tenets of Budd'HA. Forming, in ancient times, a part of the empire of Magadha, from which they seem to have derived the name of Mug or Mauga, by which they are generally termed by the inhabitants of Bengal; and being, from their fituation, more immediately connected with India; their language is by no means purely monofyllabie, but forms, as it were, the connecting link between the polysyllabic and monosyllabic languages. The Rukheng race is admitted to be of the same radical stock as the Barmas or Birmans, and is understood to have greatly preceded that nation in civilization. The Barmas, indeed, derive their own origin from the Rukheng, whom they generally denominate Barma kyi, or the great Barmas, and they confider

the Rukhing as the most ancient and original dialest of the Barris language. This idea is certainly correct, and it may be added, that the Rukheng' orthography and pronunciation are neither to defective, nor to much cord rupted as the Barma, and that consequently, in tracing the history of the language, the Rukhing is of much greater utility to the 'philologist. 'In another respect the language may be considered as purer; until their late conquest by the Barmas, the tribes of Rukheng seem for a long period to have retained their independence, while the proper Barma tribes have suffered various revolutions. Hence the Rukheng retains more of its ancient form, and is less corrupted by foreign mixtures. The modifications, therefore, which it has received, are chiefly derived from the Pali or Bali, which was cultivated in the country as the learned language, and contained all their facred books. The Rukhing has accordingly adopted Bali words and phrases more copionsly than the Barma, and bas also preserved them in a greater state of orthographical purity. The pronunciation of the Rukheng is perhaps broader and groffer, but more articulate than the Barms; in particular it strongly affects the use of the letter r, which the Barmas generally convert into, y, in their pronuncia ation. Such, howevers is the difference of pronunciation between the two nations, that, even in fentences, where the words are nearly the same, they are not easily intelligible to each other.

The Rukhéng alphabet coincides accurately with the Deva-nagari system of characters in its arrangement, and very nearly in the power of the particular letters. The only variation of importance is, the expression of both the acute and grave accent of the vowels, as well as their common sound, in certain cases. This provision, however, does not ex-

tend to all the vocalic founds in the Rukhing alphabet, but only to those founds, of this species, which are of most general use. A similar contrivance for the expression of accent, occurs in all the alphabets of the monosyllabic languages, but waries, in extent, according to the exigencies of a particular language. Thus, in Rukhing, after the simple alphabet, follow the combinations of the simple letters, with wa, ya, ra, and of h preceding them. Then follow some triple combinations of the same letters, after which are exhibited the common forms of syllables which terminate in a consonant, as ah, ang, aich, a't, a'p, and others of a similar kind; and finally the varieties of accent, as acute and grave, are presented, in those vowels and nasals which are chiefly subject to be influenced by them.

The Rukheng character has confiderable fimilarity to the Barma, in the greater part of its letters. The following fimple characters, however, g'ha, ja, j'ha, nya, ta, t'ha; and had, na, 'd'ha, ra, tla, as well as fome of the more complex combinations, differ greatly from the refpective forms of these characters in the Barma alphabet, and exhibit considerable resemblance to some of the ancient Canara characters. The Rukheng simple alphabet is exhibited with considerable correctness by Capt. J. Towers, in the fifth volume of the Asiatic Researches, though many of his particular observations, as well as general views, are far from being accurate; chiefly, it may be presumed, from the novelty of the investigation.

The Rukheng language, in the simplicity of its structure and expection, has great analogy to the Malaju. It has properly no numbers,

eases, nor slections, in its nouns; nor conjugations, moods, tenses, or persons, in its verbs. Many words have a substantive, adjective, or verbal signification, according to their position in a sentence; but, in general, the names of objects, qualities and actions, are sufficiently distinct from each other. The plurals of nouns are formed by numerals, or words expressive of plurality as lú, a man, lú-súng-rawk, three men, lú žkúng, many men, lú žkúng-lúng, all men; mímma, a woman, mímma akúng-su, many women. Comparisons are made by particles expressive of number or quantity, such as mya, or mrét-té, much; akré and hlard, very; prét, less, under; akúng, many. Cases are expressed by particles equivalent to the prepositions or postpositions of other languages, or by juxta-position, which has often the force of the genitive in the Rukhéng language. Thus, a man's hand, may be expressed indisserently by lú-lák, lú-hma-lak, or hi-chwá-lák.

The simple pronouns are nga, I, ko, or mong, thou, and yang-su, he; the plurals of which are formed by the addition of ro, as nga-ro, we; mong-ro, ye; yang-su-ro, they. But in addition to these simple pronouns, there are various others, which indicate rank and situation, as in Malayu, Chinese and the monosyllabic languages in general, which have, all of them, paid peculiar attention to the language of ceremony, in addressing superiors, inseriors and equals. These ceremonial forms in Rukheng are sometimes formed by particles added to the simple pronouns, and sometimes they are significant terms, such as servant, lord, highness, majesty, used pronominally, or rather in an absolute sense, without any expressed pronominal adjuncts; as in addressing a superior, when

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the terms asyang, lord, sir; sak'hang, highness; khang-pira, majesty, are employed.

THE pronouns in common use in Rukheng, according to this variety of ceremonial forms, may be thus exhibited.

I, we, thou, ye, be, they, nga, kó, dang, nga-ro, móng, yang-su, nga-ro.hma, nang, yang-su-ro, kyčwéng, awcy, SU-ro. akyeweng, mong-hma, akyčwéng-hma, mong-ro, akyéwéng-ró, mong-ro-hma, akyč wéng-ro-hma, nang-ro, akyewéng-tza-ré, nang-hma, akyeweng tz'hang-ré-ro, nang-ro-hma, awcy-ro, awey-hma, awcy-ro-hma,

To explain the particular instances in which each of these pronominal terms is used, is not consistent with my present object, which is only to present a general outline of the structure of the language.

THE moods and tenses of the verbs are in like manner expressed by means of particles, or significant words, like our auxiliary verbs. Such are st, ht, hi-ré and le-bi, is; bri and lé yákk, is, been; bri-ré and bri-kha ré, was; míy, will; ra and ra-mé, miy, can; yaung, let, permit; hi-sua, been. The position of these particles in a sentence, is often, however, a matter of considerable difficulty, and is one of the circumstances in which the elegance of style chiefly consists. The style chiefly affected in Rukheing composition, is a species of measured prose, regulated by accent

and the parallelism of the members of a sentence. Rhyme, however, is not required, either in the terminating consonants or vowels, though it frequently occurs from the structure of the language. The general form of this measure seems to be four long syllables, each of which, however, is conversible into two short ones, or may have a short one interpolated before or after it. Thus, the passage adduced by Captain Tow
ERS from the Manú Saingwan, as a specimen of his system of orthography in his "Observations on the Alphabetical System of the Language of Awa and Rachain," may be arranged.

Maha sámäta, Man grí chak-kráwälá, San'khra prain brain, Tain dain pi' tá, Tain-kha hnaik ch'haun', Khté số tặchhé, Shai'ch pá số T'hám-mă-sát, Cha ga do go &c.

Sometimes, however, more complicated measures are employed in Rukheng composition, in imitation of those which occur in Bali. Many interesting works are represented to exist in the Rukheng language, but the greater part of them are translations from the Bali. The "Tillawar Cherita" is said to contain the historical traditions of the Rukhing nation: the "Karik," composed by Anguli-Mala, and the "Thamma-sat" or Dherma Sastra, contain their system of religious observances, and code of laws. The following is a list of the most popular Rukheng compositions.

- 1. Raja-búntza,
- 2. Raja-wongtza,
- 3. Témi,
- A Némi,
- 5. Janaka,
- & Suwanna-afyung:

- 7. Bhuridat,
- '8. Tzaingdá-gúngma,
- 9. Sada-shyei'chachaung,
- 10. Mahó,
- 11. Uni-nga-gyaing,
- 12. So'p-foung-gyéng,

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- 23. Bhuridat-kapya,
- 14. Bo-thi-hmain-déi,
- 25. We-laing-dara,
- 16. Saing-we-ra,
- 17. Krauk-ché,
- 18. Nara-cho,
- 19. Athi'k-bala,
- 20. Abhi-dam-ma,
- at. K'hunei'ch-kyeng,
- 22. Para-ma-saing-gou'k-kyéng,
- 23. Maha-Raga-t'ha-kyéng,
- 24. Sapa-kyéng,
- 25 T'ham-ma-sat-kweing-khya,
- 26. T'ham-ma-sat-kra'k-ru,
- 27. T'ham-ma-sat-Manu,
- 28 T'ham-ma-fat-krudaing,
- 29. Logafara,
- 30. Sa-bri-hla,
- 31 Taing-t, haii,
- 32. Radana-hrwé-khri,
- 33. Radana-paing-gung,
- 34. Rudana-paddaing,
- 35 Radana-kweing-khya,
- 36. Radana-powng-khyowk,
- 37. Ba-na't-fa
- 38. Kraing-ma-tei'ch-p'hak-powng-wat'hu,
- 39. Nga-tzi-tăda-pring-do,
- 40. Ga'p-p'ha-kyéng,
- 41. Lakhana-di-ba,
- 42. Noma-kapya,
- 43. Nga-chaing-braing,
- 44. Rama-wut'hu-cha,
- 45. Bramafara,
- 46. Bud-dho-wa-da,

- 47. Péda-fow't,
- 48 Mung Ila-fow't,
- 49. Khunei'ch-ra'k,
- 50. Khunei'ch-ra'k-parei'p,
- 51. Patha-wi-jeya,
- 52 Sa-gra-u-ch'howng,
- 57. Lé-keweng-u-ch'howng,
- 54. Sit-t'ha-da-nú,
- 55. Sat-powng,
- 56. Sat-véng,
- 57. Sat-hnewaing,
- 58. Sa-hrwé-k'hé,
- 59. Moé-té-krang-cha,
- 60. Gu-waing-podi-mowng-cha,
- 61. Thi-to-padé-sa,
- 62. Noma-ko-ga-tha,
- 63. Taché-hnei'ch-ra-fi,
- 64. Khowng-gri,
- 65. Khowng-lap,
- 66. Khowng-ngé,
- 67 Tä-hnaung-gra,
- 68. Mé-t'haung-gra,
- 69. Su-mé-t'ha,
- 70. Rewatta-cha,
- 71. Aswa-pida, 72. Prowng-bra,
- 73. Owng-pa-di-cha,
- 74. Paing-pru-cha,
- 75. Uga.
- 76. Mowng-chwa-cha,
- ' 77. Cho-r€,
 - 78. Ya't-ré,
 - 79. Lung-di-cha-

FROM this lift, it is evident, that the subjects of some of these works are the adventures of characters well known in Sanscrit mythology, as the Rama Wut'hu or history of RAMA, the Budd'ho-wa-du or history

of the Avatar Bud D'HA; others of them focus to be only Rudheng versions of well known Samerit compositions, as the T'hi-to-pa-desa, or Hitopadesa, the Tham-ma-sut-Manu, or Dherma-sastra of MENU. The Suwanna-Asyang is the popular flory of Suvurna Srings, or the golden cow, formed by the Brahmen Sumbukara Misra, and presented to Raja MUKUNDA DEVA GAJAPATI. The Bhuridat is the history of Raja BHURIDATTA of Magadha, mentioned in the Maha Bharata, and the Bhuridat-kapya, or Bhuridutta-kavya, is a poem on the same subject. The Raja-buntza is the Rukheng edition of the Raja Vumsavali, the Rajah-Wongtza is a different work on the fame subject, and the Pat'ha-wi-jeya seems to be the Prit'thu-vijeya. Of the modifications they have received, in the process of translation, I have hitherto thad little opportunity of judging, but as far as I have been able to investigate the subject, not only the style, but the incidents and progress of the Sanscrit narration is generally altered, to render them more illustrative of the ascetic doctrines of the Budd'hist sect; such as the guilt of killing animals, even accidentally; and the perfection acquired by Rishis in folitary retirement, by means of sublime penance and meditation.

THE Rukheng language has never been cultivated by Europeans; the observations on its alphabetical system by Captain Towers, and the short specimen of its vocables in Dr. Fr. Buchanan's "Comparative Vocabulary of some of the Languages spoken in the Burma Empire", both in the 5th vol. of the Asiatic Researches, being all that has been published concerning it in any European language. The specimen given by Dr. Fr. Buchanan, only varies from the Barma in seven words out

of fifty, and these are only varieties of pronunciation, excepting " low shee" a child, which is also Barma, and mateinay, which seems to be any error, as it does not fignify to sit, either in Ruhheng or Barma, but literally " does not stand," the proper Rukhing term being ra't chowk. The words in the vocabulary certainly exist in Rukheng as well as in Barma; but in some instances different words are in more general use, in the former; as ahri, long, instead of she, and po-mro-naing-grong, beast, instead of taraitzan. The Rukheng pronunciation, sometimes too, is modified by the Burma, and the letter r is almost always omitted. in the specimen, though it is a distinguishing characteristic of the Ruk. hing pronunciation. Thus, the Rukhing requires mri gri, earth, instead of myægyee, in the specimen; kri, great, instead of kyee; kripamó, foot, instead of kiapamo; krowk, six, instead of kiouk; kri, a star, instead of kyay, and ni, the sun, instead of nay. These errors, however, are not to be attributed to Dr. FR. BUCHANAN, nor detract, in the least, from the merit of his exertions in commencing the investigation; they evidently proceed from the inaccuracy, hurry and indiffinft pronunciation of his. Barma assistants, and in his situation were perhaps not to be avoided. unless by attending to the native orthography.

DR. F. BUCHANAN has also exhibited comparative specimens of two-mixed dialects, spoken in Arakan; the first termed Ruinga, spoken by the Moslems of the country, and consisting of a mixture of Arabic, Hindi and Rukheng; the second, termed Rusán, used by the Hindis of Arakan who adhere to the system of Brahma, and formed by a large proportion of corrupted Sanscrit and Bengali, united to a comparatively small portion of Rukheng. The dialect of the province of Yo, as it is pronounced.

by the Barmas, and Ro as it is termed by the Rukheng is only a flight variation of the Rukheng, which it approaches much nearer than the Barma. The range of mountains to the north and east of Rukheng is inhabited by a race termed Khing, by the Ruk'hing and Barma tribes, or as it is written by Dr. FR. BUGHANAN, Kiayn; but who term themselves Kolún, and whose language is peculiar, having little or no affinity to either Rukheng or Barma. From the two names, Ro and Kheng, the name of Rukheng is generally derived; but the national name of the Rukheng race is Ma-rum-ma, which feems to be only a corruption of Maha-Vurma; Vurma being an epithet generally assumed by the tribes of Kshatriya extraction. The inhabitants of the mountains between Rukhing and Chatigan are termed Sa-mowng-syang by the Rukhing tribes, and are afferted to speak a different language. They are probably only a division of the Kheng, or Kolún. Whether these are the same with the Kúkis, who inhabit the high ranges of hills to the N. E. of Chatigan, I have not been able to determine. In the able and curious description of this fingular race, given by J. MAGRAE, Esq. in the seventh volume of the Asiatic Researches, the languages of the Kuki and Mug, or Rukhing races, are faid to be so intimately connected as to be mutually intelligible. That the two adjacent tribes should be mutually able to understand each other, is very probable; but that their respective languages are connected, in this instance, I apprehend to be very dubious; for ina specimen of above 500 radical terms of the Kúki, which I owe to that gentleman's politeness, I find very few which are similar to the corresponding Rukheng, or that were understood by an intelligent native of Arakan. The subject, however, requires further investigation, and there seems to be no person better qualified than Mr. MACRAE, for prosecuting the inquiry, both by his abilities, and his fituation.

VIII. BARMA.—The Barma language is used by the great and powerful nation of the Barmas. The name of this nation has been written differently, by almost as many authors as have mentioned it, while no person seems to have thought it worth his while to inquire how the Barmas wrote their own name. This they constantly write Barma, though from affecting an indistinct pronunciation, they often term themselves Byamma, Bomma and Myamma, which are only vocal corruptions of the written name. AMADUTIUS, however, in his preface to the "Alphabetum Barmanum seu Bomanum," with equal ignorance and confidence. denies flatly, that any nation, country, city or language, exists, which, by the natives themselves, is denominated Barma. This name, he afferts to have been introduced folely by the ignorance and viellar Fronunciation of Europeans, fince, fays he, by the analogy of the linguistic the nation is denominated Bomah, the great nation, from to, the health a chief, and mah, a man. This filly vapouring etymology is, however, entirely averse to the established orthography of the Barmas themselves, and only worthy of P. PAULINUS, or a modern Frenchman.

THE Barma language, like the Rukheng, in its original state, appears to be purely monosyllabic, but it has borrowed freely from the Bali, and in imitation apparently of that language, it has sometimes formed words of some length, by the coalescing of its original monosyllables. Being completely devoid of every species of slection, whether in nouns, pronouns, or verbs, its construction is extremely simple, and depends almost solely on the principle of juxta-position, like its cognate dialect, the

Rukheng, which it resembles in structure. Its pronouns and particles are peculiar, its idioms few and simple, and its metaphors of the most obvious kind; but it is copious in terms expressive of rank or dignity, and the rank of the speaker is characterized by the language he uses.

THE Barma alphabet corresponds to the Bali, and is regulated by the same principles of accentuation. In point of form, it has considerable resemblance to the Canara, Singala, and Telinga alphabets, but is rather more simple in the formation of the character. Carpanius, in his "Alphibetum Barmanum seu Bomanum," is inclined to derive the Barma character immediately from the square Bali, used in Ava, and both of them from the Hebrew, through the medium of the Persic. Amadutius, improving on this idea, or rather adopting that of Bayer, seems to be desirous of deducing both, as well as the Malabar or Malayalam, from the Armenian, a character to which they have scarcely the remotest resemblance, and the origin of which, is itself involved in great obscurity.

The character of the Barma language has a very considerable effect on the style of the compositions its contains. Repetitions of the same turn and expression, are rather affected, than shunned; and a kind of naked strength and simplicity of phrase, with short sentences, pregnant with meaning, are the greatest beauties which the language admits of. "The Bomans" says Carpanius, "in their poetry, are more careful of preserving similar terminations, than an equal number" of syllables, and asset this style, particularly in treating of religious subjects." The sact, however, is, that the similarity of termination is neither sought, nor shunned; but recurs from the genius of the language, very frequently. The

style of the principal Barma compositions is a species of measured prose, regulated almost solely by the accent, as in the Rukhéng, the different dialects of Chinese, and the other monosyllabic languages. The tone of polished conversation requires an approximation to this style of composition. The verb is generally placed in the close of the sentence, and the desect of conjunctive particles, to connect the different members of a sentence, renders a considerable degree of repetition absolutely necessary to prevent consulton.

THE Barma language has been highly cultivated in composition, and contains numerous works in religion and science. Besides numerous books on astrology, mythology, medicine, and law, in the latter of which the most important is the Dam-ma-Sat kyee, or great system of justice, with the Constitutions of the Barma princes. The Barmas are afferted, by Dr. Buchanan, to possess numerous historical works, relative to the different dynasties of their princes, the most celebrated of which is the Maha-raja-Wayngee. "These people," says he, "have also translated histories of the Chinese and Siamese, and of the kingdoms of Kathee, Koshan-pyee, Pagoo, Saymmay and Laynzayn." On the importance of such works, supposing them to be strictly of a historical nature, it is needless to dilate. It appears probable, however, that many of them may refemble the Hindú Cheritrás. The Barmas possess numerous smaller poems and fongs, and even natakis, which may probably be derived from Sanscrit tradition, as the adventures of RAMA in Lunka, are favorite topics in their dramas. The following are some of the most popular works in the Barma language, and several of them, I find, exist equally in Rulheng, Siamese and Malayu. Some of them are purely mythological, but others are Cheritras of the historical class.

- 1. Jina-Mana,
- 2. Nunda-Jina,
- 3. Nundaguma,
- 4. Chundaguma,
- 5. Narada,
- 6. Temi.
- 7. Nemi,
- 8. D'hammapada,
- 9. Namagara,
- 10. Logafara,
- It. Loganit'hi,
- 12. Maho-Sut'ha,
- 13. Wesundura, or Rory of Rajah Vesundara,
- 14. Paramik'han,
- 15. Chudongk'han,
- 16. Bungk'han,
- 17. Kado-k'han,
- 18. Chatu Damasara,
- 19. Sangwara, termed in Siamese, the Sut'hon.

- 20. Bhuridat.
- 21. Kinara-pyeu, or account of the celefial Kinara,
- 22. Malinméng Wut'hu, or history of Rijah Malin,
- 23. Jinaka, or history of Rajah Jinaka, denominated in Siamese Maha-Chinók,
- 24. Yuwaji, termed in Ruk'heng Ruari,
- 25. Swipri-weng-khan,
- 26. To-twék k'han,
- 27. Munigungsala,
- 28. Anusasana,
- 20. Suan-nashan,
- 30. Wit'hora,
- 31. Kagileinga,
- 32. Sada-syi'ch-chaung,
- 33. Anaga-atweng,
- 34. Ngare-khan or description of Naraka
- 85. Attagatt-lénga,
- 36. Hmát-chew' bon'g.

The Barma language has fome variety of pronunciation in the different provinces of that empire. The dialect of the Yô, situated on the east of the Arakan mountains, has been already noticed. The Tanéngsári, or language of the inhabitants of the Tanaserim district, denominated Tinnaw by the Siamese, also differs considerably from the common Barma. The Tanéngsári certainly have many peculiarities of expression, and many words in common use, among them, are at present obsolute among the Barmas of Ava, but the majority of them are to be found in the Barma writings, and the Tanéngsári are therefore

reckoned to use an obsolete dialect, rather than a peculiar language. I have already mentioned in what respects the Barma and Rukheng are related to each other. The following comparative liftues terms will show more particularly the extent of their difference in current use.

	Rukbing.	Barma.		
Month	khanang	piját		
back	nau-kúng	naó		
knee	pa-chhei'ch-tú	du		
bone	aro	ayo		
heart	alúng	na-towng		
feeing	mrang-ré sú	myang-fu-ha		
Imell	kaing-ré	chan-jan		
touch	pait-té	feing-fu-ha, thi		
trouble	ma-ré	k hék		
ftrength	akrt	akyan		
marriage	maya-ni-chá'p-té	lék-t'hat-gya,		
life	ahrang	afyang		
circle	apawk	akwéng		
ftorm	mukri	mofeik		
huil	mu-gyowk	mó-li		
morning	må fowk-tha, nyi-ga	mă-nei ķ ,		
evening	nya-ja	nya-né, né-é		
fea	mreik péng-lé			
Ruft	mré-moh amóng, myé-m			
mud	ta-mal fuin			
ire	ming	mi		
length	hr č	shi		
ditch	mroung	kewng		
gold	hrui	fué		
filver	an võ	ngoé		
horfe	mroung	miyi n		
fowl	krak	kyiuk		
cock	krak-p'ha	kyiuk-t'hi		
hen	krak-ma	kyiuk-ma		
Inake	mrui	myewé		
fall	rowak	yewék		

	Tukl öng.	Barma,		
hed	făloing	kadeng		
tavlor	ang-gi-dap	khyowk-fama		
white	aprů	pvú		
hard	kyang	n á		
vegetable	haung fei'ch ruakk	heing-ewék		
first	ayenga äkha	aveng-fu-ha aveng-du-ha		
fece nd	hnei'ch-khu-chowng	hnei'ch-khu-fu-ha		
1	akveweng-hma	kvewen-noû'p		
We	akvewengkro-hma	kvewen-do		
thou	niong	méng		
you	mong-ro	méng-do		
he	yang-fu	f u		
they	yang-fu-ro	fu-do		
this	d6-ga	di-ha		
that	t'ho-ga	ho-ha		
who	% fu	ક્ રેલિ		
what	jàma	baha		
which	, Kfu	. béfú, béha		
if	t'ho-shyang	hléang		
though	la-lá't-hléukk	phye'ch-bleang		
about	le'khi-gra't-me	pát		
many	akúng,	apóng		
perhaps	kaing-ra-bya	kán-hné		
yes	how't-payak	hou't-ké		
no	ma-hi	ma-fi		
is	M	Я		
Was	bri	pyi		
has been	hi-yak	fi-bi		
I ought to do it	akyeweng-louk-kowng-yak	kewen-noù'p-louk-gowng-dê		
I will do it	akyeweng-ro-hma louk-ra-ré	kewen-nou'p louk-ya-dé		

THE Barma affects a more delicate, but at the same time inarticulate pronunciation than the Rukhéng, and less consormable to the actual orthography of the language. This is particularly obvious in the convertion of ra into ya in Barma; but the Rukhéng itself is not devoid of

its peculiarities, among which may be mentioned the conversion of sha into ha. Thus the word which is written shré, in both languages, is in Barma pronounced syi, and in Rukhéng hrí.

THE specimens which Dr. BUCHANAN has exhibited of the languages of the Karieng or Karayn, as he writes it, and of the Kiayn (which feems to be the same word sostened in the pronunciation;) the rude tribe which denominates itself Kolún, certainly show considerable analogy to exist between these dialects and the Barma proper. Some Barma words seem, likewise, to be discoverable, in the specimen he has given of the language of the Moitay, or inhabitants of Kassay, as mee, fire, nga, fish; and more copious and correct vocabularies, with a more exact orthography, would probably exhibit a more intimate connection; but a certain degree of acquaintance with the grammatical principles of every language, and with its alphabet and orthography, if a written one, is absolutely necessary to give any philological value to a specimen of its words. The inhabitants of the Nikobar islands are sometimes reprefented by those who have visited them, as speaking a language which is radically Barma, while, by others, it is reckoned Malayu. If Fon-TANA's short vocabulary (Asiatick Researches, Vol. III.) can be depended on, the Nikobar language seems to have very little connection with either the one or the other, as it does not appear to contain above two or three words which can with certainty be referred to either of them.

THE Barma language has been little cultivated by Europeans, excepting the Catholic Missionaries. The "Alphabetum Barmanum," digested by Carpanius, was published at Rome in 1776. Carpanius mentions, in his preliminary differtation, that, at that period, a grammar and

vocabulary of the Barma language had been prepared by P. Jon. MARIA PERSOTO, Bishop of Méssola, which seems never to have been pubkished. In the presace to the same work, AMADUTIUS mentions, that the gospel of Sr. MATHEW, and the epistles of Sr. Paul, had been rendered into the Barma language, together with the "Evangelia dierum omnium Dominicalium," " Episbola Dogmatica, et Dialogus inter Missionarium et Talapoinum." P. PAULINUS, also mentions among the Borgian MSS, a dialogue between a savage Khien and an Ex-Talaboin, written in the Italian language by D. CAJETANUS MANTEGATIUS, the object of which is to expose the doctrine of the Talapoins, as contained in the books of the Barmas. Khien seems to be the name of the rude tribe termed Khing by Moslem writers, and Kinyn by Dr. BUCHANAN; and the work itself, the translation of a composition circulated among the converted Barmas by the catholic missionaries. The Talapoins seem, however, to have retalizted on the missionaries; and Dr. FR. BUCHANAN has printed VINCENTIUS SANGERMANO'S translation of " A view of the Religion of GODAMA," composed by ATULI ZERADO, for the express purpose of converting the Christians, in which the English, Dutch, Armenians, and other nations are exhorted to adore Gonama, the true Gon; to adore, allo, his law and his priests, to be solicitous in the giving of alms, and in the observance of Sila, and in performing Bavana.

IX. Môn.—The Môn language is still used by the original inhabitants of Pegu, who denominate themselves Môn, though by the Barmas they are termed Taleing, and, by the Siamese, Ming-môn. This language has never been cultivated by Europeans, and the only specimen of it, known to me, is that printed by Dr. Fr. Buchanan, (Affatic Re-

fearches, Vol. V.) It feems to be quite original, and is laid by the Barmas and Siamese to have no affinity with either of their languages. I have met no learned man of the race, nor have had any opportunity of cultivating the language, but I have been informed by a Talapoin that they possess many ancient histories in this language; which is not imposfible, as they feem to have attained civilization, at a more early period than the Barmas; and, though now reduced, to have been formerly a great and potent nation. In the early Portugueze histories they are denominated the Pandálús of Môn; and they are supposed to have founded the ancient Kulaminham empire, at a very early period. The name Kalaminham, mentioned by the Portugueze, is probably connected with the Stamese name of the nation, Ming.mon. The Mon alphabet, if I can det pend on the specimens of the character shown me by a Barman of some learning, is only a fight variety of the Barma-Bali, with which it corresponds, in the power and arrangement, as well as the form of the characters. I have, however, had little opportunity of investigating this subject; and, expecting to have visited Pgu, did not avail myfelf of that opportunity to the fullest extent. The examination of the Mon character and language, has no peculiar difficulty, and may be easily accomplished by the first literary inquirer who may visit Pegu; and I still indulge the hope that my future inquiries may be attended with success in investigating their relations.

X. THAY.—The Thiy language is that which is used by the Siamese, who, in their own tongue, assume this name as their national appellation. By the Barmas, they are denominated Syan, from whence the Postujueze seem to have borrowed their Siam and Sigom, from whom

the other nations of Europe have adopted the term. LA LOUBERE, who visited Siam in 1687-8, as Envoy Extraordinary from the French: monarch, has given incomparably the most account, that has ever been exhibited, of this nation, formerly reckoned the most polished of castern India. He divides them into two races, the Tai and the Tai Yai. The latter nation, he adds, are reckoned favages, though the most ancient. Their name fignifies literally the great Tai, and in order to distinguish themselves from this nation, the ruling race, in modern Siam, assume the name of Tai-noë, the little Tai. Dr. FR. BUCHANAN, however, on the authority of the information he received in the Barma dominions, divides the Siamese race into many states; and gives a specimen of the vocables of three dialects. This brief vocabulary, with LA Lousere's observations on the Siamese language, and "The maxims of the Talapoins," translated out of Stamese by the catholic missionaries, which he has published in his " Historical Relation of the Kingdom of Siam," constitute all that has been published, respecting the language or literature of this nation, in any Europear tongue. The refult of my own inquiries certainly coincides more directly with LA LOUBERE's information, than with that received, by Dr. Fr. Buchanan. All the intelligent Siamese, whom I have met, and among these, there were Talapoins, both of the Tai and the Taiyas race, agree in afferting, that the Siamete nation, properly to called, confifts of two tribes, the T'hay and the T'hay j'hay, for so the names are properly written. Of these the most ancient are the They. Thay, formerly famous for their learning, and the power of their empire. It is added, that many monuments of this ancient race exist in the kingdom of Sign; and I was informed, in particular, that in the vicinity of Ligor, about five days journey from Trang, there are various appearing scriptions, on stone, among the runs of a very ancient temple, which are attributed to the T'hay, j'hay, but which no person among the mode in Tuav is able to decypher. The Thay language, or Siamese, as it is written by these two races, does not differ effentially; but the spoken dialect among, the T'hay j'hay, is much more frongly accented, than among the T'hay proper, or the present ruling race of Siam. The T'hay j'hay inliabit the country between the Me-nam and the Me-kon, or river of Cambodia; but the Thay, for the most part, inhabit on the west of the Menum, or between that river and the frontiers of the Tinnaw, Mon, and Barma nations. As to the Tai-loong, of whose vocabulary Dr. Buchanan has given a specimen, all the Siamese that I have met, though they admit that a district is denominated by this appellation, unanimously deny, that there is either a race of men, or a dialect of the language, which bears this name. The words themselves, which Dr. FR. BUCHANAN adduces, as specimens either of the Tai loong or the Tai-yay, are pure T'hay, wheneever they are not auricular corruptions of pronunciation, or words of different meaning, introduced, apparently, by the interpreter's misapprehension of the sense required to be expressed. Having myself been frequently exposed to similar misapprehensions, and knowing, from experience, the difficulty of avoiding it, especially in languages, in which not only the fignification varies, with fuch delicate shades of pronunciation, as are almost undistinguishable to an European ear, but the train of ideas themselves, is regulated by such a subtile, and as it were hieroglyplucal set of principles, Lam far from infinuating any carelessness in Dr. FR. BUCHANAN, whose comparative vocabulary is the first attempt to

classify these languages; but I am attempting to account for the mill these into which he feares to have been inevitably led, by the misapprehenfion of his interpreters. Thus, moo fignifies the hand, in T'hay, and paw-moo, which he exhibits as the Tai loong variation, is only Fà-mú, the palm of the hand, in the proper language: Ken, which he writes kayn, fignifies the arm, in T'hay or Stamese proper, and in the same language, komoore, which he gives as the Tai yay synonime, signifies the lower part of the arm, from the elbow to the wrist, and moo, the Tailoong synonime, signifies the hand; Tin, signifies the leg, in Siamese; but naung, which he gives as the Tai-nay, fignifies the skin; and koteen, the Tai-yay synonime, the joints of the leg; in the same manner langteen, which he gives as the Tai-nay, or common Siamese, for foot, signifies literally the upper part of the foot; and Swateen, the Tai-yay synonime, appears to be a mispronunciation of Fatin, the under part of the foot. Satt signifies a beast, or animal, and nook, the Tai-yay synonime, is only a mispronunciation of nok, a bird, as are noup and naut, the Tai-nay and Tai yay words, which are given to fignify a bird; Pawk fignifies the mouth, but tsop, given as the Taiyay synonime, is a mispronunciation of tsot, to drink; San signifies short, but lot, the Tai-yay synonime, signifies child, and unlot, the Tailoong synonime, one child; your fignifies to stand, but lost-sook, the Tai-yay synonime mispronounced, signifies to rise up; and Peinung, the Tai long synonime, go sit; seeza, the head, is not Stamese, but Balí, and the Tay-yay synonime ho, and the Tai-loong, hoo, are only mispronunciations of the proper T'hay term hua. It may be proper also to observe here, that Dr. FR. BUCHANAN has printed Tay-nay instead of the Tai-noe of LA Lou-BERE, which figuries little Stamese; whereas Tay-nay cannot possibly fig.

nify little Siamese, but only shief Giamese; the true meaning of may, being chief or head. It is a term of similar import with nayen, nayer and nayer enmar, used in Malabar, as the appellation of the military cast, or naya-ha, in Sanscrit.

The Thay or Siamese language appears to be in a great measure original; and is more purely monofyllabic, and more powerfully accented, than any of the Indo-Chinese languages, already mentioned. It certainly is connected, in some degree, with some of the Chinese dialects; especially the Mandarin, or Court language, with which its numerals, as well as some other terms, coincide, but these are not very numerous. It borrows words freely from the Balt, but contracts and disguises more, the terms which it adopts, than either the Rukheng or the Barma. In its finely modulated intonations of found, in its expression of the rank of the speaker, by the sample pronouns, which he uses, in the copiousness of the language of civility, and the mode of expressing esteem and adulation, this language resembles the Chinese dialects, with which also, it coincides more nearly in constructive than either Barma or Rukheng. Its construction is simple and inartificial, depending almost solely on the principle of juxta-position. Relative pronouns are not in the language: the nominative regularly precedes the verb, and the verb precedes the cafe which it governs. When two 'subhantives come together, the last of them is for the most part supposed to be in the genitive. This idiom is confonant to the Malayu, though not to the Barma or Ruk'heng, in which, as in English, the first substantive has a possessive signification. Thus, the phrase, " a man's head," is expressed in Berma and Ruk'heng, by lú-k'haung, which is literally man-head; but, in Siamese,

at is kuz khon, and in Maliyu. kapala orang, both of which are literally head-man. A similar difference occurs in the position of the accusative with an active verb, which case, in Barma and Malayu, generally precedes the verb, as tummaing chá, literally rice eat; but in Siamese follows it, as ken kaw, literally eat rice, which corresponds to the Malayu makan-nani. The adjective generally follows the substantive, and the adverb the word which it modifies, whether adjective or verb. Whenever the name of an animal, and in general, when that of a species or class, is mentioned, the generic, or more general name of the genus to which at belongs, is repeated with it, as often happens in the other monofyllabic languages, as well as in Malayu. In the polition of the adverbial particle, the Malayu often differs from the Siamese; as Mana pergi, literally where go, but, in Siamese, pai hasi, go where. The Siamese compolition is also, like that of the Barma, a species of measured prose, regulated : folely by the accent, and the parallelism of the members of the sentence; but, in the recitative, the Siamese approaches more nearly to the Chinese mode of recitation, and becomes a kind of chaunt, which different Brahmens have affured me is very similar to the mode of chaunting the Samaveda.

THE Thay coincides occasionally, even in simple terms; both with the Barma and Malayu; but these terms bear so small a proportion to the mass of the language, that they seem rather the effect of accident or mixture, than of original connection. The following are some of these coincidences which present themselves spontaneously.

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	T'hay	Barms		T'han	Malayer
river,	klong,	kyóng or krong,	I,	ku,	aku, and ku,
elephant,	chang,	ch'heng,	this,	ni,	ini,
₩w,	lŭęi,	lûa,	that,	nun a,	inún,
finger,	nyew,	nyo,	lock,	kaché,	kunchi, .
to,	ka,	ga,	dagger,	krít,	krís,
sclf	éng,	Eng,	open,	bùk,	búka,
			to,	ka,	ka,
			come,	ma,	mari.

THE I'hay or Siamese alphabet, differs considerably in the power of its characters from the Bali; though it not only has a general refermblance to it, in point of form, but also in the arrangement of the character. The vowels, which are twenty in number, are not represented by separate characters, but by the character corresponding to the short thar, variously accented rexcepting the vocalic ru and lu, which are only variations of the r and I confonants. The confonants are thirty-seven in number, and are not arranged by the feries of five, like the Deva-nagari and Ball, but the first series ku, consists of seven letters; the lightest feries, cha, of fix; the third feries, the or da, of fix; the fourth thirds, ba or pa, of eight; the fifth series, 37 of four; and the wife feries; sa, of fix, including the vocalic akar, though two of them are not in common use. Each of these letters is varied by sixteen simple accentuations, and by thirty-fix complex ones. The letters ka, nga, ta or da, na, ma, ba or pa, are also final consonants. Hence it is easy to perceive the near approximation of the Siamese to the delicacy of the Chinese accentuation; while in other respects, the alphabet is considerably more perfect, than in the Mandarin or Court language of the Chinese, which has neither the same variety of consonants, nor admits so many, in the close of a syllable. The Siamese pronunciation, even of confonants, corresponds very

imperfectly to the European mode: r and l are generally pronounced n, in the close of a fyllable; h is often prefixed to a consonant, but from the total suspension of voice, in pronouncing syllables which terminate in a consonant, no aspiration can be pronounced after them; ma, and ba, tya, and chya, are often difficult to be distinguished in pronunciation, as are ya, and ja, kyé and chyé, with other combinations. From this circumstance, many combinations of letters are pronounced in a manner somewhat different from that in which they are written.

The first European who attempted the study of Siamese literature, was the learned Gervaise, but his lucubrations have never been published. The learned and indefatigable Hyde produced from the Siamese ambassador at London, an impersect copy of the Siamese alphabet, which has been published by Greg. Sharpe, in the "Syntagma Dissortationum," 1767. It is inferior and La Loubere's alphabet in accouracy, though it contains a printer number of compound characters. La Loubere's alphabet contains three forms of the sa, corresponding to the Nagari; but the sha and sh'ha being disased in common pronunciation, are commonly omitted both in the alphabet and in modern MSS.

THE Siamese or T'hay language contains a great variety of compofitions of every species. Their poems and songs are very numerous, as are their Cheritras, or historical and mythological sables. Many of the Siamese princes have been celebrated for their poetical powers, and several of their historical and moral compositions, are still preserved. In all their compositions, they either affect a plain, simple narrative, or an unconnected and abrupt flyle of short, pithy sentences, of much meaning. Their books of medicine are reckoned of considerable antiquity. Both in science and poetry, those who affect learning and elegance of composition, sprinkle their style copiously with Bali. The laws of Siam are celebrated all over the east, and La Loubere has mentioned three works of superior reputation. the Pra-Tam-non, the Pra-Tam-Ra and the Pra-Raja-Kam-manot. Of these, the first is a collection of the institutions of the ancient kings of Siam; the second is the constitutional code of the kingdom, and contains the names, functions and prerogatives of all the officers; the third, which is about 150 years old, contains additional regulations. Of these, the first is the most celebrated and the most deferving the attention of Europeans.

The Siamese histories of the Thay dynasty, detail with much minuteness, and great exaggeration, the events which have occurred in Siam, and the adjacent states and comming, during the last 1000 years? It also details the events of 400 years, previous to that period, with Jess precision, from the building of the city Maha Nakhon. The records, however, of the Thay J'hay dynasty are supposed still to exist; and perhaps, it may yet be possible to glean a sew grains of pure into the gold from the sands which glitter in the long vallies of the Minute and Me-kon.

THE Cheritres, or romantic fictions of the Siamese, are very numerous, and the personages introduced, with the exception of RAMA and the characters of the Ramayan, have solden much similarity to those of the Brahmens. The following are some of the most popular among the

· T'bay, several of which contain the same stories and incidents as those which are current among the Rukhéng, Barma and Malayu nations.

1	Rámá-kién,
2	Rádin,
3	Sum-mut-ta-kó-dóm,
4	Wét-jäsun-dón,
5	Worawóng,
6	Un-nartit,
7	Mahó-íot,
8	Méläy,
9	Chátri
10	Chalawan,
11	P'húm-hóm,
12	Pra-thóm,
13	Su-t'hon,
14	Pok'ha-wad-di,
15	Téng-ón,
16	Lin-t'hóng,
17	Nok-k'hum,
18	P'ha-non-son-păjá,
19	Mak-kali-p'hon,
20	Súm-p'han-sit,
21	Sŭan-na-hong,

22 Prang-t'hong,
23 Nang-sip-song,
24 Ramá,
25 Chumpá-t'hong,
26 Lúk-sũa-ko,
27 P'him-swan,
28 Paja-p'hali,
29 T'hàw-krung-són,
30 Khun-p'hen,
31 Trei-wong,
32 Chin-narat,
33 P'howit'hat,
34 Su-t'hin, .
35 Hői-fang
36 Sang-sin-chay,
37 Woranút,
38 Chitra-kán,
89 Nang-ut'hay,
40 Mahá Chinók,
41 Miék-t'hong.

In the general characteristics of style and manner, these Cheritras resemble those of the Rukheng, Barma and Malayu tribes, and exhibit the peculiar manners of the Indo-Chinese nations, as well as the peculiar seatures of their mythology. The Rama-kien seems to be a Siamese version of the Ramayan, and relates the adventures of PRA'M of PRA RAM, and his brother PRA-LA'K or LAKSHMANA, and their wars with Tot-sa-kan or Dusha-kant'ha, (which is one of the names of RAVANA,) who carried off Nang Se'da or Si'ta. This narrative corresponds, as far as I have been able to learn, with the Sanscrit poem, and almost

all its incidents have been converted into Natakas for representation by the Stamese, in the same manner as the Barmas have employed the incidents of the Yama-meng or Barma Ramayan. Radin is the Stamese translation of a Javanese story. Sum-mut-ta ko-dom is the history of So-MONAKODOM, abridged from the Bali. The Wet-ja-sun-don is the histo-. ry of a Rojah who becomes an ascetic of the forest, being struck with a fit of devotion at the fight of a withered mango-tree, as he was walking in his garden. Worawong is the history of an unfortunate Rajah, who 'fell in love with a lady, and was flain by an enchanted spear which guarded her, one night as he was escalading the window of his mistress. This is also a subject of dramatic representation. Mahó sót contains the wais of Maha-sor with Chor-Ni, and is the same as the Barma Maho-Sul'ha. Un narat, narrates the story of Ani'rud'ha, the grand son of KRISHNA. Muly relates the benefits of MALAY, the being whose office is to relieve the torments of Naraka. Chalawan contains the history of a destructive alligator, who falls in love with a princess, whom he carries off to his recess in the ocean, and the account of her rescue. Phim-hom is the history of another princess of whom an elephant was enamoured, and her rescue. Prathom is a mythological account of the origin of the universe, according to the principles of the Budd'hist sect. Nok-khúm is the mythological account of the celebrated HAMSA. Pokha wad di is the history of BHAGAVATI. Pha-non-són-paja, contains. the instructions of the sagacious ape'P'ha-non. The Mak-kali-p'hon, the adventures of the son of a chief, who possessed a wonderful cow, resembling the Sanscrit Kamad'henu. Sum-phan-sit, a book of moral instructions. Prangethong relates the adventures of the persons who

went to the land of the Rakshasas in search of the fruit Prang thong, for which a certain princess had longed when pregnant, the obtaining of the fruit on condition that the child of which the princess was pregnant. should be presented to the Rakshasa, the carrying off of the child by the Rabshasa, and her return to her parents when grown up. The Lúksŭ 1-ko relates the friendship between the tiger and the bull, and their being afterwards metamorphosed into men by a certain Rishi. Pajap'halt relates the adventures of VALI, the brother of SUGRIVA'. Hoi Sang relates the adventures of the prince who was boin in achank shell, and remained in it till he arrived at maturity. The Sang-sin-chay is the account of a hero who was born with a chank and an arrow in his hand, with which, and mounted on a lion, he accomplished many adventures among the Rahshasas and Girgásis, Yakshas or Yak, as they are termed by the Stamese. The Woranút relates the adventures of the twin brothers WORANU'T and WORANE'T. Nang "thay relates the adventures of a Naga princess, who was carried . off by a Rajah. Some of these fictions exhibit a wild and singular style of fabling, with which we are little acquainted, but the greater part are obviously derived from the Sanscrit, through the Bali.

THE T'hay exhibits confiderable variety of measures, in composition, and frequently introduces several of them in the same work, in the same manner as is frequently done in Brij'h, Punjabi and Sik'h compositions. The most frequent measure, however, among the T'hay, as among the Ruk'heng and Barma, seems to be that denominated rap, which consists of sour long syllables, but admits occasionally of one or more intercalary short ones: the Já-ni which consists of five syllables, the Chô-

bang of fix, the Pat'hamang of seven, the Jesunta of eight, are also seen quently employed.

THE following specimen of T'hay, is taken from the beginning of the Maha Chinok, a work in which the greater part of these are introduced.

DESCRIPTION OF MAITHILA.

Jang mi múung núng Jay kwang trahung Chu Mít t'hín lá Tháw p'hu suwoi iât Krop krong para Song nam maha Chinok p'homi Som det p'homi Krong se narát Pin chá nan ma Bo mi an arái Ké rat pracha T'haw krong para Pin cháw p'hon din K'haw mak pla-t'hok Bomi p'hai rók Biblin p'ho min Pinfúk kă priăm pri Múung Pra Narin T'haw krong p'hen din Súkă fém pră chá

Lok'ha-ma k'hài Wanit t'hang lài Chai rua pai ma Bo mi fatru Biblin práchá Prat'het naná Jom ma thuk muung Chin, Cham, Pram, Law Ming-môn, Tin-náw Map mai nong núung P'harang phang-ka Ma kha t'húk múŭng Khék môn nong núung Ma muung ka kai Kúla P'hrang-fét Chin Cham Pram-T hel Chong lakk Nalayi Tipún Chinhó Aw sin ma k'hái" Ni nún lúž lay

"There was a certain country, powerful and of great extent, termed Mithinla (Mait hight.)" But this country a certain Rajah exercised the sovereign authority, named MAHA CHOOK, (JANAKA) overshadowing his people like the spreading banian tree. For a long series of years, he ruled this country, while none was able to injure it, or subject it to foreign authority. Rice was abundant, and of a cheap price: no disease prevailed, and no discontent against the sovereign, and the inhabitants enjoyed every pleasure, as in the region of Pra-Narayen. The sovereign of the country diffused joy over the sace of the land, among the natives, while merchants respected thither in

deets of hips, constantly going and coming; and as there was no disturbance in the land he shabitants of every country frequented it; the Chin, (Chinese) the Chim Tartars,) the Pram, (Bramhens) the Ming-Môn, (Môns of Pegu) the Innaw; (Barmas of Tenaserim) all of them, in innumerable multitudes: also the Pranks of Europe came thither to traffic; the Khôk, (Malays) the Kúla, (Chulias) the Phrangset (French) the Pram-t'hôt, (Kelings or Hindús of Katinga) the Chong-sakk and Na-Lay, (Caffree tribes, with stained skins and tartoed faces,) the Jipun, (Japanese) and the Chinbo, (Tonkinese) resorted thither with goods, to buy and fell, constantly in great multitudes."

THE MAHA CHINOK of the Siamese, seems to be a popular account of Raja Janaka, of Maithila, derived from the Ramayan; but it is evident, if the text can be considered as correct, that the work has been either interpolated or modernized, from the mention of the Franks and the French.

THE following specimens of Rukheng and Barma, will indicate the fimilarity of style and measure which prevails in all the monosyllabic languages.

THE specimen of the Rukhing is taken from the Nga-chaing-braing:

THE BIRTH OF GAUTAMA.

O-lé lé fangkhyé hna
Kaing b'ha ta faing
Two'k kyíng tsúng bowng
Pri bri fyowng-hma,
Párá tzú gó
Lo rui towng thi
Alúng sú mré'p
Syang Theik-d'hat ga
'Né hmát pro ra
Dowk thi da hnei'ch
Khyaing fa fukha
Tzaing lé fa dé

O tzeng lé bri sô
Dewa nát-tzei'ch
Ahnei'ch mroung krá
Tzaing bri chwa hma
Sei'ch-tza lé ba
Tará tzu si
Pri kha-ni-wé
Pri gri fa hla
Ka pila hnei'ch
Khrei'ch pha Thowk tô
Médô boûng hi
Siri maha

Maya waing t'hé Amri thaing d'hé Tsuwe le ti O thaing dé tsuwé bri Mrê gri kreit krak Aup t'hak akowng Lat let towng & O thaing de touwe t'ha Tsé la waing hneik Paik towng bri tho Pinng é nan hmon Ahlueng tu pró Angarang to hneik Mi tso maya Uyein sa go, Lé la tan di O lé lát bri so

W yéng t'hé doang Ko wat krang rud Pre jang ron mra Ni ma hla ni Gotami hna Mă pri ret Kăt Lé krang shéat suwé Preng thak hoen moang Ahlueng tu pro-Angarang to hneik Mi tso maya Tháing khả ngewéh khak Káing hléak lék tsuwé Amré rat né Thowng lu chwa go Phwa hléang lé i.

WHEN one hundred thousand revolutions of the world were completed, each occupying four Sankhyas, then the devout worthipper obtained the object of earnest defire; and the fublime THIK D'HAT, (SIDD'HART'HA) who is acquainted with the secrets of futurity, obtained supreme telicity, tranquillity devoid of care, and self absorption. After the pure Drva Nar'ha had passed numerous ages in the possession of repreme felicity, meditating on the four laws of truth, when the period of the divine favor was nearly completed; in the excellent and populous region of Kapila, SUK-TÓ (SUDD'HÓ-. DANA) became his beloved father, and SRI MAHA MAYA, his venerable mother, became pregnant of a perfect conception. When this conception took place, the strong earth was agitated upwards and downwards, trembling and shaking. After ten months pregnancy, supporting her swelling womb with her hand, his mother MAYA was walking for recreation in a deep forest of Angarang trees, diffusing around an exquisite odour. Walking up and down in a pleasant garden, reciting the divine names on her rolary, and radiating in brilliant beauty, and accompanied by two younger fifters of the fame camplexion, unable any longer to support the burden of GOTAMA (GAUTAMA,) the lettret on the shoulders of her two younger fisters. Within a deep forest, in a grove of Angarang trees, which diffused around an exquisite odour, his mother MAYA, firmly grasping the branches with her hands, and standing erect on her feet, brought forth the deity GOTAMA.

THEIRIDHAT. or THIR-DHAT, is the Barma mode of pronouncing Sand Sudding to this analogy, Buddina is pronounced Bu'gda, and Suddino, the contraction of Sùddinodana, Suk-to and sometimes Sug-do.

The following specimen of Barma verse is taken from the Chatu Damasara, as it is termed in Pali, which is denominated the Ko-Khán in Barma.

DESCRIPTION OF VARANASI.

Baranasi Pyı gyi pyi hu . Kyó-níy lú-bó · We-niy kofi Năgo k'haing-gaing Hwún hwún di Baranasi hông ji pyo wa T'ho pyi ma hneik Dana-ma-mé Chawng lé sadéng Meng i tang khúln Chúin gyé han li Khyiuk fuin pyo byo Hna myo mé hlyéang Hmya hné chéng ĕwé Wan duéng p'hyong tan Makouk yáin di Ta khúin ha ge Hnei'ch kwa maswé Myew chwé khyé'ch so Húléng kacha Hloup shya maneyng Kyan k'heng myé chông Ti di les cwe Hné lóng makyan Kyéng dan mwé nyek Myék fék niba Peng ga neng t'hek Hoi'ch chek mushfh Khan khi si nyin . P'hycang bé pyo t'hu Lú ahwon hné Machan kyéžng hmu Leik hléo pyew sa Ché khu hneik chán Raja t'han dùéng Ta éng makhyo Kyé, ju do gyowng Sépo pyéng gyĕwin Myet lé thuin so_ Ku-san hlé desk' Pyiuk la fo kha Ko gwé ya hlien Hman chua chéng chei'ch Phyeit pé so la Néng ngan la-do Myo ba ché yú

Chéng yé hu-la
Yé tu khyan p'hyeng
Tông lé khyéng hma
Pyowk, keng ché khyéng
Bowng mi kéng ewé
Mwol shéang lan-owng
Sin myan chông si
Swé tawng nan puéng
Cho yan hineng ga
Meik myiang ko yo
Sivé khyi ko sa

Mito ketu
Hmat takhu phyieng
Esukari
Kyo hlueng nyi hliep
B'hông cheit ta hmu
Khát sin lu-do
Up'hyu u nêk
Sowng tesk tweik si
Hwan teik pyi byi
Hlyéan hlyéan di

BARANASI (Beneres) was a beautiful and extensive region, inhabited by a race superior to every other, whether far or near, living fortunate and happy. Baranasi was, in every respect, an admirable country, possessing every thing desirable; for in that kingdom, prevailed the practice of charitable donation, and the performance of ascetic duties. So generous was the heart of the Rajah, that he gave, in charitable donations, the whole amount of his revenue. Devoid of every selfish desire, his mind was onefold, like the point of any arrow. Free from evil inclination, onefold and not double in his speech. Assectionate to all his relations, and beloved of them, remaining firm as a massy roof-beam, no one could prevent or shake his purpose; never deviating from veracity, undivided in heart, excellent in his whole conduct, and his heart devoid of angry passion. Under his sway existed no violence, restraining the desire of his own eyes. Such was his universal character.

PERFORMING no wicked action, applicandering all his people happy, he neglected none of the ten commandments in the practice of general benevolence. Like a bank of fand, which rifes up into an island far at fea, and when the passing ships are wrecked, affording a sure and safe resuge to the mariner. Thus it was that he aided his subjects, who were sinking overwhelmed in misfortune; and thus those who were shivering under the chilling cold, (of distress) were revived by approaching the genial slame of authority. Like the motion of a serpent, cautious in his conduct. His palace was splendid as a mountain of gold; in his presence no enemy durst present himself. Savakara Kasa Mitra Kritu, with his mind fixed on one object, Yesukara far celebrated; such was his segal state, that the whole human race, whether white or black, in ten thousand regions, lived in joy and happiness under his sway.

IT is difficult to determine, from the Barma text, the true name of this fovereign of Benares; but several names, in some degree similar, as

MITERY and KETUMAT, occur in a Pauranic list of the Rajas of Benerest Edited from Divodasa, which was pointed out to me by Mr. College Brooke, of whose notices I have frequently had occasion to avail myself.

XI. K'HôHME'N.—The K'hôhmén language is used by a nation of that name, who reside on the Mé-kon, or river of Kam-bú-chá't or Camboja. It has never been cultivated by Europeans, and I have had no opportunity of examining it. The Siamese, from whom I received my information, affured me that it was entirely different from either the Thay or the Juan, or language of Cochin China. The K'hô mén are reckoned an ancient and learned people; and were formerly stroduced by the T'hay-Thay, or ancient Siamese race. The modern T'hay, or Siamese, still denominate the Bali character, Nangsu Khôm, or the K'hôhmén letter, from this nation. They are not, however, supposed to have existed as a polished nation so early as the Law, but are believed to derive their origin from the warlike race of mountaineers named Khô, the Gueos of the early Portugueze historians, who are thin represented, as practiling their ancient customs, of eating human slesh, and painting and tarthoing their bodies. . DE BARROS, however, feems to represent the language of the K'hôhmén as different from that of Camboja, though the Siamese do not dillinguish them. "There are two kingdoms" fays he, "adjacent to each other, and both of them mantime, which have each a peculiar language; the first is termed Conto, and the second, Camboja," (Becad, iii. . lib. 2. c. 5.)

XII. Law.—The Law language is used by the inland nation of that name, who are generally termed, after the Portugueze writers. Lao.

and, in the plural, Laos, from their confishing of different rages, Their language, De BARROS observes, is peculiar, and that were affert that it is different from the Thay. It has never been callivated by Europeans, very few of whom, besides ALEXANDER DE RHODES, have ever vilited the country. According to KEMPER. (History of Jupan, p. 26,) the Law nation do not differ much from the Siamese, either in language, or writing, except that they are unal ble to pronounce the letters l and r: and this opinion I am much inclined to adopt, though I have had no favourable opportunity of investigating the subject. If, however, I may be allowed to judge from the specimens of the Law language, which I have been able to prucure from Siamese and Barmas, it appears to bear the fame relation to the T'hay or Stamese, that the Ruk'heng does to the Barma, With the I 'hay-j'hay it accords more fully than with the I'hay proper; and, in adopting Pali terms, it adheres more accurately to the Pali authority! than either of them. The following thort lift of words and phrases will convey fome idea of the difference which sublists between the Thay and the Law. As the T'hay-j'hay approaches the Law more nearly than the T'hay, when that dialect uses peculiar terms, I have preserved adducing them, for the lake of comparison, Where the Law and the T'hay agree in the radical, an apparent diversity, is often produced by the conversion of the l and r into h or d.

 1	Lâw./ ft	T'hay.
call,	hông,	ríu kk ,
talk,	fú,	phút,
warm,	hón,	ron,
very warm,	hón ala,	"ron uk,

	Lâu.	T'hay
noz kany	bo-hu _#	mai tys
Takica long.	cháw handen	nai hén rú,
many.	meng,	máke
fea,	méläműt,	shājē,-
wave,	fông,	klûn,
river,	không,	klóng,
number,	ân,	rap,
gold,	khăm,	thong-kham, thông
lead,	tông,	täkGa,
do,	peng, Jia, .	tham, jin,
book,	pap,	fabút,
matchlock,	Sénat,	pan,
far off,	kši,	Fig.,
yandiopod	lau,	pain,
weary,	ít,	ົກນີ້ຂຶ້ງ,
hated,	ch i ,	ikisita
ling,	Eę,	khap,
grieve,	hái,	rong,
give,	łińni.	h ŭjs
approach,	hôt,	thung,
market,	kāt,	tälät,
thus, P	iat,	de la
Arth.	chin.	ှ <i>က္</i> ပိန _{စ္}
blood,	hùit, "	lüit,
fight,"	hop',	ibp, t
icraft _s	ikhil si ,	, Manage
ftand,	hŭn,	jùn,
lamp,	kat'itip,	th king,
how is it done?	peng jang huden	· d'ham jung atai
how many?	táw dai,.	taw rái,
moon,	p'ha chan,	pra-chan,
woman,	°mé jing,	pu-Jing.
man,	pho nay,	phu-char
country,	wkyung,	thuring,
house,	hũìn,	min,
who,	phai,	krai, or
what,	bafandé,	arai,
	palatin.	par-aun

	Lâw	T'hey.
come here,	mà-phé,	ma-ni _s -
fort,	tapp,	k'hái,
elder brother,	ay,	pi-pach-sy,
elder fister,	pci,	pi-pu-jing,
mother,	jmé,	mê,
I, '	ķu,	ķ'hà,
I (honorific)	kha,	di-chan,
we,	hôw,	râu.

IT is from this nation that both Siamese and Barmas allege that they derive their religion, laws and institutions. It is in the country of Law that all the celebrated founders of the religion of BUDD'HA are represented to have sieft their most remarkable vestiges. Ceylon boasts the facred traces of the left foot of Budd'ha on the top of the mountain Amala-Srispadi, or Adam's Peak. Siam exhibits the traces of the right foot, on the top of the golden mountain Swz-na-bapato. Other traces of the facred steps are sparingly scattered over Pegu, Ava and Arakan; but it is among the Laos, that all the vestiges of the founders of this religion feem to be concentered, and whither devotees repair to worship at the traces of the sacred steps of Pra-Ku-ku son; Pra-Kon-na-kon, Pra-Put-t'ha-Kat-sop and Pra-Sa-mút-ta-ko-dom. These Siamese names of the four Budd'HAS feem to correspond to the Barma KAUKASAN, GONAGOM, KASYAPA and GOTAMA, the Singhala, KAKUSAN'DA, KONAGAM, KASYAPA and GAUTAMA. There can be no doubt, however, from the order of the names, but that they are the four last Budd'has in the life given by He'MACHANDRA ÁCHA'-RYA in the Athid bana Chintameni, under the following Sanscrit appellations, from which all these Siamese, Barma and Sing'hala names, seem to be only Bali corruptions. The Sanscrit names are Krukruch'hunda, Kan'-

chang, Káryafa and Sákyasinha. The language of Litu it represented as altereding in books, especially translations from the Ball; and if the antiquity of the nation can be depended on, they must be extremely interesting, from the fituation of the country between China and the other Indo-Chinese nations. The Law nation confists, like the Siamese; of two different races of people, denominated, in Siamese, Chongandi and Lan-chang, which are said, by Kampfer, to be the names of their chief cities. The first of these are termed; by the Barinas, Yūn, and the second, Lain-sain. De Barros adds a third wibe, which her denominates Chan cray. In their general appearance the Law resembles the Min.

kin. It is represented by the catholic missionaries to be, likewise, generally used in Champa and Kau-bang; but their affertions must be taken with some limitation when they add, Lâw, Cambója and Siam. The Anam language, as well as the nation, is often denominated the Juan, by the Malays and Siamese. It has always been more cultivated by the catholic missionaries, than any other of the Indo-Chinese languages, though these fathers may, with some degree of propriety, affect the title of "mustiplicis idiomatis propagatores." So early as 1651, the Propagana Society published at Rome the "Dictionarium Annamiticum Lusitanium et Latinum" compiled by the jesuit Alexander de Ruodes, after twelve years residence in Cocini-China and Tonkin, where he had studied under P. Francisco de Pina, the first who acquired skill and facility in that language. In composing his dictionary, he had also the advantage of employing the materials collected by P. Gasfar de Ama-

RASSAND P. ANTONIO BARBOSA, the first of whom had made some progress in preparing an Anam and Portugueze dictionary, and the second in compiling one in Portugueze and Anam. This dictionary is printed wholly in the Latin character, as the author confidered the Anam character as too difficult to be useful. It is accompanied by a short grammatical sketch of the Anam language, entitled " Lingua Annamitica seu Tunchinensis brevis Declaratio." . Though I have never met with a learned Cochin-Chinese, I have seen several persons who could speak the vulgar language by rote; and have paid sufficient attention to it to merceive, that the dictionary of De Rhodes is a work of very great merit, though certainly susceptible both of additions and emendations, A new edition of it, would be a work of great utility, if our relations with Cochin China should eyer become more intimate or important: a circumstance by no means unlikely, from the formidable aspect which that kingdom has lately assumed among the more easterly nations. The principal defect of the work is, its representing, very imperfectly, the Anam propertiation, a desect unfortunately very difficult to be remedied, as the Anam language contains many founds which correspond very little to those of any European language, and respecting which a grammarian might be tempted to say, with the devout missionary Didacus Collado, when treating of the pronunciation of a Tapanese letter, " quando in aliquo vocabulo fuerit (quod est val le frequens) orare debet discipulus, Deum, ut ei venas pronuntiationis aperiat"-(Prolog. in arte Grammat. Japonic. ling. 1. 4.) DE RHODES also published at Rome, in 1652, a catechism, for the use of his Anam converts, in Anam and Latin.

FROM the vicinity of the Chinese to the Anam nation, and the intimate connection that has at different periods subsisted between their countries, the Chinese character, as well as literature, has been introduced into both Tonfin and Cochin-China. Chinese literature is greatly affected by all who pretend to diffunction in learning, in these countries: and in the language of Anam, the Chinese characters are denominated Chive belides this, another species of character, is in general use, and commonly employed in matters of business and private affairs, which is constructed on a principle entirely different; and although its letters are numerous, they bear no proportion to the Chinese highs, and, according to Da. RHODES, they are unintelligible to the Chinese and thole who are unacquainted with the Anguage. These characters, in the Anance language, are termed Nóme What relation they bear to the Balí characters I have not been able to determine accurately, though I suspect they will be found to be connected with that, or the T'hay alphabet. It is perfectly certain, however, that they have no connection with the proper Chinese character. I have been informed, by an intelligent Chinese, who had resided some time in both Siam and Cochin China, that the proper Anam character greatly refembles that of the Siameie. The millionary Borri says, that the Cochin Chinese, in harangues, letters, memorials, petitions, " and fuch things as do not belong to printed books, for thefe, of necessity, must be in Chinese characters," generally employ about three thousand characters, which they find sufficient to express their meaning. If the compound characters, and contractions of the Siamese, be included in their alphabet, they would nearly amount to this number.

Anguage, figh, as has long been the theme of speculation in Europe, though it is generally regarded as an absurd and impossible reverse. It is not indicative of founds, but of real objects and ideas, and consequently, it is read and understood by at least twenty different patients, who would feareely understand a worst of one anothers or litanguage, and would all use different; words to express the same meeting. The only are our numeral, algebraical, astronomical and chemical figns, which are constructed on the same abstract principles. The Chinese, however, same constructed on the same abstract principles. The Chinese, however, same constructed on the same abstract principles. The Chinese, however, same times constructed on the same abstract principles. The Chinese, however, same times constructed on the same abstract principles. The Chinese, however, same times constructed on the same abstract principles. The Chinese, however, same times, which another person can pronounce with great accuracy. As far as I have been able to leasn, however, this can only be accomplished by persons who use the same spoken language.

THE Anam language is simple, original, and monosyllabic. What relations it may possibly bear to some of the spoken monosyllabic languages of China, to the Man-chèw-Tartar, to the Korean, Formosan, Likyu, or rather Riu-kiu languages, I cannot possibly pretend to determine; but it certainly has very little affinity to the Mandaria or court language of China which is properly termed Khuna; to the Kong-tong or language of Canton; to the copious polysyllabic and inslessed Japanese; or to any of the other Indo-Chinese anguages.

It is certainly possible to find several Anam vocables which coincide both in found and signification with words in the Khunn or Mandarin-

Chinen, and also in the King-ting, as well as others, which chefely refemble T'hay or Siamess vocables; but nevertheless, all the effential parts of the Anam language are original and unconnected with any of the other monosyllabic languages, of which I have any knowledge, BARROW, an authority of some weight, in his " Voyage to Cochin-China," seems to consider the Anam as a derivative from the Chinese, " because it is constructed on the same principle." (p. 301.) "The spoken language," he observes, "has undergone a very considerable change, which is the less surprising, as the inhabitants of the northern and fouthern provinces of Cluna, are unintelligible to each other; but though it has been altered, it does not appear to have received any improvement, neither from additions of their own, nor from the introduction of foreign words." (p. 322.) The precise meaning of this sentence, I confess I do not understand. The mais of the Anam language, whether nouns, verbs, or fignificant particles, is totally different from that spoken Chinese language with which he has compared it; and he himself admits; "That it is Comuch changed from the original, as to be nearly, if not wholly, unintelligible to a Chinese." The Anam nation employ several sounds and letters which are incapable of being pronounced by a Chinese, fuch as b, d and r. The particles which form the cement, or construction of the language, are also different; and in addition to all these, the Anam language has a peculiar character of its own, which is not understood by the Chinese. It is difficult; after this, to conceive what similarity exist between the Chinese and Anam, unless that they are both monosyllabic languages, and that the fignification of terms is regulated, in a great measure, by their accentuation. But

though the same monosyllables occur, and though they are also accented frequently in a limitar manner, yet even in this case, the signification of these monosyllables is, for the most part, totally different. In the syntax or construction of the two languages, there is also werry great difference, for in almost all the instances in which the Barma language differs in construction from the Malayu, Thay, and Anam, the Chinese agrees with the Barma, and differs from the three others. Thus, when two substantives follow each other, in Chinese and Barma, the first is in the genitive or oblique case; whereas, in Malayu, T'bay and Anam, the second is in the oblique case. Sometimes, too, the Chinese order of arrangement differs equally from them all. Thus, in Chinese, the dijective generally precedes the substantive, whereas it follows it in Malayu, Barma, T'hay and Anam. It must be observed, however, that when the term Chinese is applied to the spoken languages of China, it is used in a very wide signisication, unless some particular province be specified. The Chinese colloquial languages appear to be more numerous than the Indo-Chinese tongues, and equally unconnected with each other. BARROW himself declares, that scarcely two provinces in China have the same oral language. (Travels in China, p. 244.) While the nature of the Chinese character is still so impersectly understood, it is not surprizing that the investigation of the spoken languages of China has been totally neglected. In the course of some enquiries that I made among the Chinese of Penang, I found that four or five languages were current among them, which were totally distinct from each other, and the names of several others were mentioned. I was informed that the principal Chinese languages were ten in number; but I have found that confiderable variety occurred in the

enumeration of their names, and suspect that they are considerably more numerous, in reality. The following is one of the lists I received of these ten languages; but I have since been informed that it relates only to those which are spoken in the southern and western provinces.

r Kông,	6 I ŭi,
2 Wáy,	7 Limm,
3 Nâm,	8 Khunn,
4 Chéw,	g Siw
5 Séw,	to Kunng.

Or these, as has been stated, the first is represented as the language of Canton, and the eighth as the Mandarin language, or that which prevails in Pekin. To this list may be added the following:

11. Hyong-san,	14. Pún ngi,
12. Sun-tukk,	15. Tông-khún,
13. Nam-hói,	16. Fo-khin.

THE last of these is denominated Chin-chew by the Chinese of Macao; but the language spoken in Macao itself, is the Hyong-San. This enumeration, however, is extremely imperfect; nor have I been able to determine which of them are to be accounted original languages, and which dialects. Neither, without particular investigation; is it possible to ascertain, whether the Anam language may not be included in this enumeration, though I am rather inclined to the contrary opinion.

THE Anam language has neither genders, numbers, nor cases; moods, tenses, nor conjugations; all these are supplied by the use of particles and the juxta position of words, as in the other monosyllabic languages. The same word has often the signification of both a noun and a verb, and its particular use, in such a case, is to be determined by the con-

text, and the collocation of words in the sentence. The principles of collocation in fentences are equally fimple as in the other monofyllabic languages. The adjective generally follows the substantive, as in Malayu, Barma and T'hay; but when two substantives come together, the last of them is in the oblique case, as in Malayu and T'hay, but contrary to the Barma order of arrangement. Thus, the phrase "the master of the house," is, in the Anam language chúa nyà; but nyà chúa signifies the house of the master. In Malayu, these two phrases are rendered by tuan ruma, and ruma tuan; and, in T'hay, by chan rum, run chan; but the Barma follows, a different order, and renders them by in-sak'heng, sak'heng-in, where in signifies house, and sak'heng, master. The substantive verb is often omitted, as being reckoned inherent in adjectives, especially when preceded by the demonstrative pronouns. Thus, núi này kaw, this mountain high, i. e. is high, the affertion being implied. The nominative precedes the verb, the preposition the word which it presides over, the adverb adheres to the word which it modifies, the relative is wanting altogether, copulative conjunctions are generally omitted, and the peculiar modes of expression in the Anam idiom are chiefly such as refult from the manners and habits of the people. The moods and tenses of verbs are formed by fignificant particles as in the other monosyllabic languages. As the Anam nation are equally formal and ceremonious as the Chinese, in their phrases of urbanity, and equally accurate in marking, with a minute and tedious precifion, the degrees of respect and honor due to every person, in the several relations of stranger, acquaintance, neighbour, relation, parent, magistrate, and all the several degrees of magistracy and office; a great

deal of the idiom of the language confists in the different modes of expressing the respective relations sublishing between the speaker and the person addressed: hence originates the number of personal pronouns. expressive of these relations, as well as numerous circumlocutory forms of expression; the genius of both the Anam and the Chinese language to quiring, that as often as possible, appellative nouns, and names of office, dignity, relationship, or consenguiaity, should be substituted instead of the simple personal pronouns. Thus, a husband addressing his wife, and using the pronoun I, instead of faying taw, ta, or gua, any of which has the fignification of the fimple pronoun I, ought to fay anh, which fignifies elder brother; and his wife, on the other hand, ought either to denominate herself toi, handmaid, or eng, younger sister; a woman, in like manner, addrelling herfelf kindly to another, who is either younger in years, or inferior in rank, ought always to denominate herself elder sister; a husband addressing his wife, in police terms, ought always to term her younger sister; and, in general, speaking to a young woman, the should use the same expression, but an old woman he ought to term bau, or aunt. A lover, addressing his miltress, terms her younger sister, while she, in return, terms him elder brother. A son, addre. ling his father, ought not even to term him cha, father; but anh,. father's elder brother; chu, father's younger brother, or cau, mother's brother: in a fimilar manner, addressing his mother, he ought not to term her me, mother; but either co, father's sister, or di, mother's sister. It is easy to perceive that this minute accuracy of phraseology must have occasioned great trouble to the catholic missionaries in rendering portions of ferreture into the Anam language; accordingly we find, that

they were extremely distressed about the propriety of the terms to be used, whenever God the Father, Jesus Christ, The Holy Ghost, or the Virgin Mary, were to be introduced as interlocutors, and dismally puzzled whether the Virgin ought to denominate herself, toi, handmaid, or mé, mother, in addressing her son Jesus Christ; as a very trivial change of phraseology, in a language so delicate in its shades and distinctions, might have given origin to the most dangerous heresy.

THE accents, in the Anam tongue, are of such indispensable utility, that they have been very properly termed the foul of the language, while the primary monofyllables, varied by accent, have been made to represent its body. Conversation is a species of chaunt, or recitative, as in the Chinese dialects, and the other monofyllabic languages, which has, at first, a very ludicrous effect to an ear unaccustomed to it. The intonation, or accent of the Anam, struck me as entirely similar to Chinese, though BORRI, the catholic millionary, to whom it was familiar, pronounces it softer and sweeter, more harmonious and copious in both its. tones and accents. He adds, that every word expresses a variety of significations, according to the diversity of accents with which it is pronounced; so that, to converse in it correctly, a person ought to understand the grounds of music. That he ought to have an ear of the most delicate fensibility is indisputable; and as this can never prevail very equally in a numerous nation, this variety of accent gives rife to fuch diversity of dish st, that through the whole Anam region, every confiderable village ' or diffritt has, as it were, a different language, and are often obliged to

have recourse to the written character, for communication with the districts in their vicinity.

Borri affirms, that the facred books of the Anam nation, are termed Sek King, while those relative to civil subjects are denominated Sek Chum. He adds, that the first treat of the creation of the world, the nature of mind, the different classes of intelligent beings, morals and metaphysical theology; but both these classes of books seem rather to refer to Chinese literature, than to that which is peculiarly Anam; for Sek signifies only book, Chuw is the name applied to the Chinese character, and King is the name of the books first put into the hands of the students of Chinese literature. Numerous Tru-yen or Cheritras, however, are known to exist in the Anam language and form the subject of their dramatic representations, in which the Anam nation are not inserior to the Chinese.

THE ancient code of Tonkin laws, possessed great celebrity, and was highly venerated previous to the late conquest of that country by the Cochin-Chinese. It is represented, by the missionary Lz Roy, as composed in the most elevated style of Chinese, and full of uncommon modes of expression. He also mentions, that it was printed with an Anam translation, composed by an ancient Tonkin Mandarin.

THE Anam style is sometimes highly bold and figurative, and attains a degree of animation which is not very common among the Indo-Chinese nations of the continent. If the French version can be depended on, we need only refer, in proof of this, to the manifesto issued by the usurper QUANG-TRU'NG, in 1790, to quiet the minds of his subjects, alarmed at the reports of the prowess of the French auxiliaries, who aided the first

efforts of the present monarch for the recovery of his throne. "Be not so credulous as to listen to what they say of the Europeans. What superior ability should that race be possessed of? They have all the eyes of green serpents, and we ought only to regard them as floating corpses, cast on our shores by the seas of the north," (Nouvelles des missions Originales—p. 144.)

The religion of the Anam nation is a modification of the Budd'hist fiftem, nearly refembling that which prevails in China. Many local and peculiar superstitions, however, are blended with it; such as the worship of the dog and tiger, to the first of which human excrement, and to the second, human sless is offered. Traces of this worship are found among the mountaineers on the borders of India, as well as in the proper Indo-Chinese countries. Thus the tiger is worshipped by the Hajin tribe, in the vicinity of the Garrows or Garudás.

The Quan-16, an ancient race, as the name fignifies, who inhabit Kauzbang or the mountainous range which divides the Anam countries from China, regardthemselves as the original inhabitants of Tonkin and Cochin-China; and consider the Anam as a Chinese colony. The Quan-16 have a peculiar language, and write with a style, on the leaves of a plant, termed, in Anam, jiwa. The Moi and Muong are also mountaineer tribes, who speak languages different from the Anam, but it is hitherto unknown whether they are original races, or offly branches of the Quan-16.

THE following comparative vecabulary of the Barma, Thay, and Anan languages, with the Kong dialect of the Chinese, will convey some idea of their mutual relations and differences. A few Rukhéng

wariations are also exhibited in the Barma column with the initial R prefixed.

	Earma.	T'hay.	Anam.	Kong-Chinese.
God	prá yieng	pra-cháw	chúa	funn, t'hien-chi
heaven	nip-ban	ſăwan	t'hién	t'hien
, the earth	kam-ba	pi-p'hop	'dia	t'hien-ha
earth	myé R. mré	dín	'dat	ti
air	lé	lŏm	phú-jyó	húng
water	yć R. ré	nam	nák, mrwok, thuy	fói
fire	mí R. meing	fài	lúwa, hóa	ffòö
_ fun	né .	tawàn	nyít, mât-bloei	thai-yong, ngut
moon	11	dùin	nguyit, mât-blang	
ftar	kyi R. kri	dàw	faw, tinh	tın-iüng
ſky	mó	fâ	bloei	mun-t'hien
Sca	peng-lé	tă-lé	bé, bién, h ži	hoë
river	k'hyong R. kh'rôn	klong	fû	.hó
animal	tareich-chañ	ſăt	thu	chhôk-lói
bird	hngék	nók	-ching	chhéok-chay
fith	ngå	p12	ka	ngù
plant	apóng	tón	thúw,	ch'háw
tree	apéng gyi	tón-mái	fang	sú, sút
leaf	ayéwék	băí	lá	hyep
hill	towng	p'hu-khaw	nûi	fan
plain	Lé-bieng	t'hung	dów, nu	phéng
*ftone	kylowk	hín	વર્ક	fyŭk, lië
gold	ſwé	t'hòng	wáng	kumm
filver	ngwé	ngùn	bak	ngúnn
brals	kyć	t'hong-k'ham	t'haw	t'hóng
iron	fan	lék	thict, făt	thit
tin	khé	tă kóž	thick	fyšk
rice	ch'han	ká 'ăn	gàw, lúa, köem	mây
egg	ú	3-bài	tlueng	"ch'hônn
day	ně	wán	ngày	yat
night	nya	k 'hùn	'dê m	man
evening	กya-n é	kham	ban-hom	yâ
mor ning	manék	cháw	fang-nyay	chew
mon:h	la	dùin	thang	yuč, ngùit
year	neit	pí	nien, nam, tuë, tu	ði nin

	Barma.	T'hay.	Anam.	Kong-Chinese.
man	lu	khon	ngúwói	yun
man	yowk-kya	pacháy	nam	nan-yun
woman	mım-ma	paning	nú₩ .	nyu-yun
father	p'haé	p 'hó	cha	hù, fū
mother	maé	mé .	mé	anu
husband	léng	p'húwĭ	chàw, phu	law k'hung
wife	maya	mıy a	vwó, t'he	láw-p'ho
fon	fa	lok pachay	kon-blai	c hí
daughter	fa-mi	lok paning	·kon-gai	ngúë
elder } bro	- ako	p'hi-pachay	anh	akko
younger I the	r nyi	nong pachay	éng	tí
elder] fif-	umma	pı păjing	chi	amui
younger ter		nong-päning	€ng	moéi
friend	fang- é-gyien	klù	nghía	púng-yôw
enemy	yan-fu	Satrú	nghéich, thu	tzow-yun
head	gowng '	huă :	thù, 'dấu 🕟	thôw
face	hmiek-n2	กล์	mat, may måt	míën
cyo	hmick-chei'ch	tá	nyan, môk, mát	}
			kon-mát	ngān
nose	nakhaung	timük	műi	pi
car .	na .	hu	táı	ngì
mouth	pajat	pâk	khau, mieng, 16-).
			mieng	how
acath	(wa	fan	răng	, nof
tooth	fha .	lín	luwoi	ng á li
tongue hand	lék	mù	tay	ſŏ₩
foot	khyé	tín	chên	khúok
belly	w Gn	p'húng, thống	deà, bâw	t'hú
back	kyó	lang	kât	püı-hów
	ayê, fayê.R.arê, farê	•	děa	phi
	ayo, R, aro	kidúk	kôt, shwang-kôt	ka
bone fic sh	ajo, R, aro	กนั้น	thit	héwük
plood ,	lw è	lŭit ,	máu tiet	hit
milk	no-yé	ກám-ກóm	fuwa	กเก
cat	chá	kín	an	kič
drink				
drink	fók	kin-nám	Gông	yûm

	Barma.	T'hay.	Anam.	Kong-Chinese.
flánd	mat-tat	jùn	dučng	.khi
fit	t'haing	,náng	, n gôi	cho
fleep	ít	nón	ngű	mi
ftri ke	yeik	ti	'dam, 'danh	wat
kill	fat-pi'ch	k'ha	jict, fat	fat
red	a ni	déng	do, than	húng
green	acheing	k'héew	Shanh	lok
yellow	awá	Jùang	hoa ka, yang	wóng
white	ap'hyu	kháw	tlang, bak	pâk
black	anék	dam	tham, ak	húl k
one	tít	nûng	mot	yűtt
two	hnít	fông	hui	nı
three	fông '	fám	teng	fam
four	16	fi	bon	ſi
five	nga	ha	lang	úng
fix	khyowk	hŏk	lak	lok
lev en	khuhních ·	chét	bai	chhat
eight	fhyft	pét	tang	pat
nine	kó	kiw	chin	kow
ten	tă ché	síp	tap	fap
hundred	tă rá	rôi	klang	pák
thousand •	tă', t'hawng	p'hán	kin .	chi n
1	kyewin-nou'p	k'há	tôi, táu, ta, kwa	ngo, ngu
We	khewin-nop'p-do	ráu '	chúng-toi, moi-toi	
thou	méng	mùng	bái, mái, ngúwoi	กโ
ye	maung, meng-do	la	chúng-bái, moi-bá	i ni-té
he	dén	măn	uo.	k'hi, t'ha
they	den-do	măn arái	chúng-nó	k'hi-té, t'ha-tô
who	bédu, bélu	kāi	ai	nāko
what	bahá	arái	nào	méyž
which	bédéng	anci	nào (placed after a	. nāko
			word	•
all	alúng	t'hang-phe,	kak	4844
		thang-mót	SAAL .	tūtū -
many	apowng	māk	deù, nyeù	**tó
few	cheich-cha-gulé	hit, nit	bé, dó, nyó	tuk, fhaw
any, fome	tăkhyo	kái kái	ko-ai	yów"
above	at'nék	bŏa	tlen .	shyang

ainder	<i>Barma.</i> wwk	na s ilige j ay. Má i, láng	Anam.	Kong-Chinese.
m	at'hé	nay	oci, tlâw	1ı, in
without	,py ieng	nók	vo, cháng-ko, ngöl	ii ngoi, wai
fo	"ko, go	l é	cho	ni, ū
from	ka, ga	té	· boei	tzong
this	dı hu	រារ់	€nây	∢ćko
that	ho-hu	nun	ey, nò	'koko •
there	ho hma	tino	bên-nö	·nun ć
here	di hina	Mírí	'bên-nây	koné
before	fhyé	กล	1luwók	fín
! behind	na w k	t'nı lång	fán	hôw

JE XIV. PALI'.—The Paki language, among the Indo-Chinese nations, occupies the same place which Sanscrit holds among the Hindús, or Arabic among the followers of Islam. Throughout the greater part of the maritime countries which lie between India and China, it is the languige of religion, law. literature and science, and has had an extensive influence in modifying the vernacular languages of these regions. The name of this language, though commonly pronounced Bali, is . more generally written Pali; but both forms are occasionally used. As the origin of the word is still ve y obscure, it is difficult to determine. which is the more correct orthography. If, however, we could venture to identify the term with the Bahlika b'hasha, which, in the Sahi'TYA DI'RPANA of Viswanátha, is enumerated as one of the languages proper to be used by certain characters, in dramatic works, the latter ought to be confidered as the more correct? L' Loubere, on the authority of "D'HERBELOT, has stated (Tom. I. p. 422) " at the ancient Persic languinge was and Pahalevi, (Pahlavi) and that the Persians do not diftinguille in writing between Pahali and Bahali. This conjecture would be confirmed by the identity of the terms Balí and Báhlika bhasha, were

it to be established; for no doubt can be entertained, that im Sanscrit geography, the epithet Báhlika is applied to a northern IndusPersic region, probably corresponding to Bálkh Bámiyan. Among the Indo-Chinese nations, the Balí is frequently denominated Lanka-basa, or the language of Lanka, and Magata, or, as it is often pronounced, Mungata; a term which seems to correspond with the Sanscrit Magad'hi, which, in many of the Ivakaranas, is enumerated as one of the dialects proper to be used by certain characters introduced in Natakas, or Hindú dramas. According to Kæmpfer, the Balí, in the Khom language, and by the inhabitants of Pegu, was termed Maccata-pasa," or Magad'hi b'hasha, as we may safely venture to render it. P. Paulinus however applies this term inaccurately to the square Balí character, instead of the language (Mus. Borg. p. 1.)

This language, notwithstanding its extensive use among so many nations, and the degree of cultivation which it has received from the different tribes by whom it is employed, has hitherto attracted little attention among Europeans. The indestrigable Koempfer, in his "Amanitates Exotica," has very impersectly exhibited the Bali alphabet. La Loubere had previously published remove correctly, according to the form employed among the Siamese; his Bali alphabet is repeated in the French Encyclopædia, and Carpanius, in his "Alphabetum Barmanum," has exhibited the simple letters, according to the square form, employed by the Barmas. La Loube in his "Historical Relation of Siam," has published "The Life of Thevetat," said to be translation of the Patimoue, or later the Vinac." P. Paulinus a S. Bartholomato, in his "Museum Bernthe Vinac." P. Paulinus a S. Bartholomato, in his "Museum Bernthe Vinac." P. Paulinus a S. Bartholomato, in his "Museum Bernthe Vinac." P. Paulinus a S. Bartholomato, in his "Museum Bernthe Vinac." P. Paulinus a S. Bartholomato, in his "Museum Bernthe Vinac." P. Paulinus a S. Bartholomato, in his "Museum Bernthe Vinac."

gianum," has, in his usual petulant, inaccurate, and desultory manner, exhibited some confused notices concerning the Bidagat, the Padi-mauka, the Kammuva, and a "Compendium of the Barman Laws," composed in the Palí language. Dr. F. BUCHANAN, in his "Essay on the Religion and Literature of the Barmas," (Afiat. Research, vol. vi.) has published a translation of the "Kammua," executed from the Latin version of Win-CENTIO SANGERMANO, which differs considerably from the notices concerning that work published by P. PAULINUS, according to whom, in 1776, an Italian translation of it was made in Pegu, at the instance of cardinal BORGIA. Whether any of these versions have been made directly from the Pali, or only through the medium of a Barma or Siamese version, is, at least, very dubious: but the enumeration may suffice to show how far the attention of Europeans has been turned to this language. It would appear, that the learned LA CROZE, in his epistolary correspondence, has also treated concerning the relations and affinities of the Pali, but I have had no opportunity of confulting the collection of his letters. P. PAULINUS, in his coarff acrimonious, and offenfive way has, also obtruded on the public, is obtonjectures concerning it, but the publication of his "VyACAIPAPA", seu locupletissima Samscrdamicae linguae Institutio," Romae 1804, has given a death-blow to his vaunted pretentions to profound oriental learning; and shown, as was previoully suspected, that he was incapable of accurately distinguishing Sanscrit from the vernacular languages of India.

The proper function of the proper function of

The Bali alphabet seems, in its origin, to be a derivative from the Deva-nagari, though it has not only acquired considerable difference of form, but has also been modified to a certain degree, in the power of the letters, by the monosyllabic pronunciation of the Indu-Chinese nations. It has dropped, in common use, some letters entirely, and accented others in a manner similar to the U'd'hata, Anud'hata, and Swaritae tones, in the system of accentuation used in chaunting Mantrás, and in reciting the Vedas themselves. Thus, it has dropped both the palatal and the celebral sh of the Deva-nagari, as well as the double consonant ksh, though

Museum Borgianum he has miltaken a specimen of Malayu for Bengali; but this is nothing to what occurs in his Sanscrit Grammar. The same blunder had been made before him, by the Editors of the polyglott " Oratio Dominica:" but the following are his own. A numerous class of Sanscrit nouns form the fifth case in AT; in Tamul and Malayalam, however, a case of similar import terminates in AL; and this case, which belongs to these vernacular languages, but never to Sanscrit, has P. PAULINUS uniformly substituted, in his Sanscrit Grammar, in the place of the regular Sanscrit flection in ar. This substitution of the letter I for t is not confined to those instances only, in which the analogous sections of a vernacular language may be supposed to have led to the error; it occurs in numerous instances, in which the Sanscrit and popular dialects coincide in using the letter t, and which must therefore be considered as the blunders of absolute ignorance. Thus, in the pames of the tenses of the Santerit verb, he gives let for lat, lot for lot, lil for lid, and lul tot warry A blunder similar to that which occurs in the fifth case of nouns, runs through a variety had allowing of the Sagrerit verb. Thus, he gives abhaval for ab'havat, bhavadol for b'havatarytherel for b'havat, bhayal for b'huyat, abhul for ab'hut, abhaviszyal for ab'havishyat: but the whole work (warms with similar errors. What should we think of a Latin grammarian who should falsify the shlative case in nouns, and misrepresent the third person singular in verbs? Yet this is nothing more than what has been done by the redoubted P. PAULINUS, whom the learned Sylvas-TRE DE SACY terms "ura decrivaime de la plus dedaigneux;" and he has not only erred in the particular in inces which he has adduced in his Grammar, but he has also laid down rules to justify, crrors, as, in his rules with permutation into t, d, dh &c. All his other works, that have fallen in 8 mi hands, the other in or nor. arrogance and ignorance. Equally superficial, inaccurate, and virulent in his invective, against of his swn stamp would be tempted to retort on him, his own quotation from Ennigus. Simia quam similis turpissima bestia vobis.

the two sust are still retained in the more correct alphabets. Instead of pronouncing the first series of letters ka kha, ga g'ha, nga, it recites them ka khá, kà găha, nga, pronouncing ka thrice; first, in its natural tone; secondly, softly accented in treble, as if with the tone údhata; and thirdly, in a deep base tone, like the anúdhata of the Samavedá Brahméns; găha or ga is only recited once and that slightly accented, while nga suffers no alteration. A similar alteration occurs in the second series, cha, and the sisth series, pa. The vowels are generally presented in the same are sometimes employed. The peculiarities of this pronunciation are, however, more closely adhered to by the T'hay or Siamese, than by the Barma and Rukhing nations, whose languages are neither so powerfully accented, nor so monosyllabic as the T'hay.

The form of the Bali character varies essentially, among the different nations by whom it is used. The square Bali character, employed by the Barmas, differs much from that which is used among the Siamese, and approaches nearer the form of the Bas obscharacter. The Siamese Bali character is termed, by the Siamese Equipment Khôm, the Khôm, or Khôhmén character; having, accounting to their own tradition, derived it from that nation. The square Barma character seems to coincide with the Bali character of Lanka or Ccylon; though in that island, Bali compositions are frequently written in the proper Singhala, character. Of the character used in Law. Champa, and Anam, I have have a opportunity of judging. Cake Anam, whis a Alphabetum Barmanum, p. 37, asserts, that La Louberg, in his Historical Relation of Siam, has mistaken the Barma and Law characters for the Bali; and Sir W. Jones, in his

8th anniversary discourse, if I understand him, assirms the same thing, on the authority of a native of Arakan. The sast, however, is, that La Lourer's alphabet, though impersect, as the vowels are omitted, and the powers of several letters inaccurately expressed, is the real Baki alphabet of the Siamese, and that which I have found in use among the Talapoins, both of the Thay and the Thay-j'hay race, however it may differ from the Baki, in use among the Barma and Rukhéng nations. This character, however, when correctly written, is not round like the proper Barma character, but formed by a number of minute strokes, placed in an angular position, like the Sing'hala Pushpákshara, or slower-character. Indeed, on comparing the two characters, the square Barma-Balt character will be found to approach nearer the proper Barma character, than the Balí of Siam.

The Bali is an ancient dialect of Sanserit, which sometimes approaches very near the original. When allowance is made for the regular interchange of certain letters, the elision of harsh consonants, and the contraction of similar syllables, all the voc bles which occur in its ancient books, seem to be purely Sanscrit. In Cheritrás and latter compositions, however, some words of the popular languages of the country sometimes infinuate themselves, in the same manner as Tamul, Telinga, and Canara vocables occasion and occur is the later Sanscrit compositions of the Dekhin. The Bali, while mains almost the whole extent of Sanscrit slections, both in nouns and verbs, nevertheless employs

ther sparingly in composition, and affects the frequent introduction of the preterite participle, and the use of impersonal verbs. It also uses the

cases of nouns in a more indeterminate manner than the Sanscrit, and often consounds the active, neuter, and passive tenses of verbs. Like other derivative dialects, it occasionally uses Sanscrit nouns and particles in an oblique sense; but notwithstanding all these circumstances, it approaches much nearer the pure Sanscrit, than any other dialect, and exhibits a close assinity to the Prákrit, and the Zend.

THESE three dialects, the Prakrit, the Bali, and the Zend, are probably the most ancient derivatives from the Sanscrit. The great mass 'of vocables in all the three, and even the forms of flection, both in verbs and nouns, are derived from the Sanscrit, according to regular laws of elision, contraction, and permutation of letters. Sometimes, in purfuing these analogies, they nearly coincide, fometimes they differ considerably, fometimes one, and fometimes another of them approaches nearest to the original Sanscrit. Their connection with this parent language was perceived, and pointed out by Sir W. Jones, and has also been alluded to by P. PAULINUS, who derives his information, concerning the Balí, from CARPANIUS and MANTEGATTUS. The fate of thefe three languages is also, in some degree similar. The Prakrit is the language which contains the greater part of the facred books of the Jainas; the Ball is equally revered among the followers of BUDD'HA; while the Zend, or facred language of ancient Iran, has long enjoyed a fimilar rank among the Parsis or worshippers of fire, and been the depository of the sacred books of ZOROASTER. It is, perhaps, howen't, more accurate to confiler all the inree, rather as different dialects of the same derivative language, than as different languages; and conformably to this idea, the Bott itself may be reckoned a dialect of Prákrit. The term Prákrit, both in

books, and in common use among the Brahméns, is employed with some degree of latitude. Sometimes the term is confined to a particular dialect, employed by the Jainas, as the language of religion and science, and appropriated to semales, and respectable characters of an inserior class, in dramas. Sometimes it includes all the dialects derived immediately from the Sanscrit, whether denominated Prākrit, Māgadhi, Sūrasėni, Pais'achi, or Apābhrans'a; and sometimes it is even extended to the Dėsa-b'hāshās, or popular tongues of India, as Mahrāsht or Mahratta, Canara, Telinga, Udia and Bengáli. According to the extended use of the term: Prākrit, it may certainly include both Bali and Zend; and if more extensive research should justify the idea derived from an impersect investigation, I apprehend that the Bali may be identified with the Māgad'hi, and the Zend with the Sūrasėni, of Sanscrit authors.

These three dialects, the Prákrit, Balí, and Zend, have been regular. ly cultivated and fixed by composition. The same laws of derivation are applicable to the formation of all the three; but yet there is often considerable diversity in the forms which particular words assume, as appears from the following comparative specimen.

	Sanscrit.	Prákrit.	· Bali.	Zend.
man	purushah	purifo	, bututla	peôorofche
woman	<i>j</i> trí	trí	it'hi	strée .
daughter	putrí 🔭 1	पू र्वितः	butri	pothré
wife	b 'harya	bhariá bhaja	p'huiya	perona }
father .	pitá	piá } pi á ró }	pita °	fedré
nother	matá	maá } maăró }	matta	' gostë
wind	váyuh .	bed	VAYO	· Vato

-				
	Sanscrit.	Prákrit.	Bali.	Zend.
fire	agnih	aggih	ak hi	atéré
horie	as'wah	á fó	atfa }	alpo alpah é
hog	s'úkarah	fuaró	fukaro	f ouber&
dog .	s'wá, s'wánum	ในกลัน	funak'ha	funish } fepa
buffalo	mahifhah	mahifó	mahingsa	mefha
hand	haitah	hattó	hasti	zesté
fan	furyah } ravih }	furó } rai }	furiya ravé	houeré recoué
tiger	vyagrah	bag'hó	p'hayagho	vuzra
tres	vrukíhali	rukhó } vuch'hah}	rukha	grot'hê
village	grámam	gámam }	khaman	guéoué
the lingues	lingam	linkarn	lankan	henghâmé
mountain	parvatah	pabbau } paüta }	bapato	berezoeté
world	prit'hivi	pahaví	pattwó	peété
forest	aranvam	raminm	aranja	heramn
he antère	pravishatí	pavi/haï	pawifi	free schet&
they will come	ágamilh wantí	- ágamihil	akamifunti	acontião
he makes	karoti	karoi .	karoti	kereté *
he is	afti	atti achi asai	hathi	aíté
feven	faptah	fattó	fapta	hapté
heaven	swargah	faggó	ſaggó	ſpérézé

In this specimen, the Prákrit words are selected from the Manórama Vritti of B'HAMAHA, and the Prákritalankes warah of Vidya' Vinó. D'HA; the Bali are taken at random from the Kumárá-Bap, Chitamnán, and Hatamnán; and the Zend, from the vocabularies of Anquetil Du Perron, whose orthography, since I have not been able to procure the original Zind, has been preserved, however inaccurate, in preserved

-to comectural emendation; though I am convinced that an orthography, more conformable to the original, would render the connection of Zend, with its cognate dialects, more apparent.

Specimen of Bali from the Hatymnan.

"SAGGE' kámécharupé giti s'ik'hara-gaté cháfit. kk'hé vim, nédipé rat'hé-cha gamé taruvanagahané gehavat'hamb. a'hetté

B'hummá el áyántu eleva i jala t hola-vifumé yekha-gandabba-naga tit'hantámantikéyám munivara vael e je avo mé fanautu

D'hammassa-vanaka - 1911111 bhaddantá namótassa-B'hagavató Arhattó s'amma sambuddassa.

Yeluntá-lantuchita tiluran -laraná éta-lókantarévá bhummá-bhummá-cha dévá guna-gana-gahaná ultayará lanbakálam été ávántu dévá varakanakamaé méru-rajé valantő.

Santófaliétam mi rívatavachanam fótam maggam fammaggam fabbéfú chakkaválófú yakhá deva-cha bramhanó.

Which may be thus restored into Sanscrit, without the radical change of a single word.

SWARGE/ káméchatút é giris'ikharagaté chántatíkshé vimáné dipé ráshtré grámé taruvanagahané gihavatihi kshétré.

Bhúmau cháyántu dóvá jalast hala-vishamé yaksha-gandharva-nágás tist hantám antiképásn munivaravachanam sád havó mé stinantu.

Dhermas'ravanal ílóyum b'hanyantam: namastasya B'hagavató Arható-samyak sambudd'hasma.

Yésantah s'ánta-chitta trisarana s'araná ihalókóttarévá b'humau ab'humaucha, dévá gunaganagrahaná d'hayantah scrvakálam: été áyántu dévā varakanakamaé mérurājé vasantah.

Santoshahetum munivara achanam s'rótum agré samagram serveshu chakravaleshu yakshá déváscha bramhanan.

The Devas frequent Suurga, Kamarupa, the mountain tops, and atmosphere, in their cars, and on earth, they visit the Dwipas, the fields, cities, recesses of foreits, habitations, and facred places. In inaccessible places, by land or water, the Dishas, Gandbervas and Nagas reside, in the vicinity of waters. Listen to me, ye devotees, while

I recite the words of the Munivaras: this is the time for hearing facred things—(the devotees reply) Say on. (the speaker proceeds) Reverence to BHAGAVATA ARHATA, the all-comprehending. Those who hear, shall become pure of mind, and TRISARANA' shall protect them both in this and other worlds: the Devas, earthly and unearthly, possessed of various qualities, constantly present themselves to their thoughts, and the Devas who reside on Meru, the chief of mountains, of pure gold, frequent them. In the full and perfect hearing of the words of the Munivaras, the Yaksas, Devas, and Bramhanas delight above all else.

This specimen may serve, in some degree, to illustrate the relation which the Bali bears to its parent Sanscrit. The pussage is chosen at random, but considerable portions of Bali have been subjected to the same process with a similar result; and I am satisfied that it applies equally to Prákrit and Zend, though words of an origin foreign to Sanscrit, may occasionally be expected to occur in all the three dialects.

At ter having thus brilly flated the origin of both the Bali language and written character. I should, in conformity to the plan which has been followed in this ripld fletch, proceed to the illustration of its characteristic flucture and grammatical peculiarities, with the nations which it bears to Prakrit and Zend; but these, with a view of Bali literature, and its influence, as a learned language, on the vernacular Indo-Chinese torques. I reserve for the subject of another essay. The politeness and literary zeal of Mr. Colebrooke, have furnished me with ample facilities of investigating the Prakrit, in all its variety of dialects; but the paucity of my original materials, in Bali, and the total want of Mss. in Zend, have hitherto prevented me from giving the subject so full an investigation as its importance requires; but if the necessary materials can be procured, I hope to be soon able to submit to the Assatic

Society the refult of my enquiries. Of the Bali language, different Kóshas and Tyákaranas are known to exist; and several of them are to be procured in Ceylon, as the Bali 'Subdamala, Balawatara, Nigandu and Nigan lu Sana. Of the Zend, various alphabets and vocabularies, as well as original compositions, are extant; but no set of grammatical forms, with which we are acquainted. The learned Tyousen, in his differtation " De Cuneatis Inscriptionibus Persepolitanis," 1798, recommends, earnestly, to the Afiatic Society, to form grammars and sexicons of the Zend and Pahlavi; and this must undoubtedly be performed if ever the subject be accurately investigated: for as yet we are imperfectly acquainted even with the true air ingement of the Zend alphabet, though it is probably the origin of the ancient Kific character, if not the actual Himyaric character itself. I have at present little doubt that the character of the ancient Zend, or as it is termed, according to ANQUETIL DU PER-RON'S orthography, Azieanté, is derived from the Déva-nágari; for that author himself admits that the vowels coincide with the Guzeratti, and hints that in some alphabets the consonants also have a similar arrangement. Numerous circumstances likewise lead us to conjecture, that if ever the Persepolitan inscriptions in the Arrow character are decyphered, it will be on the principles of this alphabet. NIFBHUR has flated, from actual observation, that the characters of these inscriptions are certainly written from lest to right, like the Dava-nagari, and the alphabets derived from it. If this authority can be depended on, it completely sets aside every attempt to explain, them by any alphabet written from the right hand to the left. A subject, however, like the Arrow character, concerning which there are almost as many opinions, as authors who have engaged in the discussion, can never be illustrated by merc conjectures, however ingenious or plausible.*

• In revising the sheets of this essay, I perceive that several omissions have occurred from the number and nature of the satious materials employed, and the difficulty of classing them in the proper order of arrange nent. The following additions are therefore subjoined.

To the notices concerning Malar compositions, the following may be added.

- 1. Asúl agúma Islam, or the principles of the Islam faith.
- Idlal agáma Islam, explanation of the Islamic worship.
- 3. Idlalu'l fikeh, explanation of the law of Islam.
- 4. Makóta fegála Raja:
- 5. Pafiru'l Korán.
- 6. Hatid Imam. gil. Mun auin. .
- 7. Hikaiat Maraj Nahi Mali
- 8. Hikaiat Nabi Mahummed?
- 9. Hik uat Nabi Mufa.
- 10. Hikaiat Nabi Yusuf.
- 11. Hikaiat deripada kajadiatin Mir Ma-hummed.
- .12. Hukam Islam,
- 13. Hukam Khaj.
- 14. Húkam Kanon.
- 15. Elmu Fikch.
- 16. Elmu Falak.
- 17. Kitahu'l Faraid.
- 18 Kitab bil A'lah.
- 19. S jihu'l Huseinu'l Katheft.
- 20. Samar adayinu'i Islam.
- 21. Mirat'al Mudinin.
- 22. Marifat ul Isian, or Punganal agi, ma Islam.
- 23. Permata marifat Al h.
- 24. Reazu'l lehafi
- 25. Ruein parungan,
- 26. Nei Mahummed.

- 27. Cheritra deripada Suliman.
- 23. Cheritra deripada al Omar-
- 20. Cheritra Raja Dewa Ahmud.
- 30. , Cheritra Kobat Leila Indara.
- 31. Humfah penchuri.
- 32. Hikaiat fegala Sufuhunan.
- 33. II katat Mila Túmon panji Wila Kalú na.
- 34. H kaiat Mifa Gomitar
- 25. H Viet Jaran Kolina.
- 26. Hikuat Chahaju Langarei.
- 37. Silfilitu'i Salátin, or, Penúrunan fegála Raja.
- 38. Hikaiat Ambon,
- 39. Hikaiat Achi,
- 40. Hikaiat Bayan.
- 41. Hikaiat Baktiyan.
- 42, H.kaiat Tana Hitum.
- 43. Hikaiat Jowhar Manikam.
- 44. Hikaint Datu perjanga.
- 45. Hikaiat Dewa Raja.
- 46 Hikaiat Raja Bolman dan Lokman.
- .47. Hikaiat Raja Tambik baja,
- 48. Hikaiat Raja Suliman.
- 49. Hikaiat Rajah ul Ajam o Albah.
- 50. Hikaiat Raja Kirripun.
- 51. Hikaiat Raja Kambáyu.
- 52. Hikaiat Raja Nila Datu Kawaj ...
- 53. Hikaiat Runga Rari.
- 54. Hikaiat Isma Jatim.
- g . Aikaiat Abdullah ibn ul Omar.

In addition to the lift of Barma compositions, the following names of twelve popular works may be mentioned:

- Wi bado,

Namofara Lénga,

- Wi béng.
- Yadana fui-gyaing,

Cédana Rasi.

- 3. Padi muk,
- 11. Ting-úchó.

4. Néwa,

compositions given under the article Barma, according to The following additional notices and corrections of names refer to the lift of Barme RMA, according to the respective numbers.

- Nunda Jaine, the history of a Deva, also named Anunda.
- 16. Temi, the religious inflitutes of TEMI.

Nemi; Another of the ten great religious books of the Budd'hists, which are recited in the following order: 1. Timi. 2 Nimi. 3. Janaka. 4. Sawan Nasyan. 5. B'huridat. 6. Maho sot'hu 7. Samata. 8. Wit'hora. 9. Chanda Gungma. rd. Wesundara. Besides these, the two following works are of great authority. The Pareik-gyi, which is the Barma Hatamnan

Pat'ham, which is the book of their mythology, which by MYA CHEWA-PARA.

- .8. Dherma pat'há, a book on Julice.
- q. Namagara, a ritual of prayers.
- Logasara and Loganithi, Moral Treatifes.
- Paramihban, account of Sameta and T'bik D'i 14.
- Bongkbar the adventures of NEMI.
- m, Lakeligious work on the expiation
- in, the fame work as the Rukhen
- Anusadana, a small book for children, like the Tanul Atishdi and other compositions of Auyar
- 30. Attagat-Linga, the Ridagat
- 36. Hmat-chew-Bong, A System of Morality,

An Account of the Trigonometrical Operations in crossing the Peninsula of India and connecting Fort St. George with Mangalore.

By OM - WILLIAM LAMBTON.

Communicated by THE HONORABLE WITTAM PETRIE, Eso. Gov-

GENERAL ACCOUNT.

In the year 1801 I had the honor of communicating to the Afiatick Society my intention of extending a geographical survey across the peninfula of India, with a vi w to a rtain certain positions on the Coromandel and Malabar coasts, and to fix the latitudes and longitudes of all the rincipal places, in the interior country, within the extent of the operasions for connecting the two das. My labours comment in the Carnatic, in 1803, in mean grap ell arcon the meridian and an persondicular, an account of which has been published in the 8th Vol. of the Afiatick Refearches. The triangles, from which those arcs were deduced, constituted part of the general survey under my superintendence, now extende from sea to sea, taking in printer of two degrees of latitude. A feries of corincipal to angles has also been carried am o Albah. meridic al directif rolli has been deduced an arc of three grees and upwardon a plitude, wing the length of the degree, on the merudian, in lat. 11° 55 "- qual (494 fathoms, and that from a grenumber of observations of different fixed flas. As I expect that the & tailed particulars of that are will appear before the publick in another place, it will be sufficient barely to mention it here, as being the scale from which the latitudes of places are computed.(4)

A FULL account of this survey being intention a separate publication at some future period, when more materials will be collected, I have chosen for the subject of the stand interesting with paper, that part of it which I think will be the most interesting; wiz. the triangular operations in connecting the two seas, and the method by which the difference of longitude has been determined in my progress from east to west: and that it may be titer adapted to the general reader, who, perhaps, may have neither time nor inclination to enter into minute detail. Shall previously state, in a concise form, the manner in which the eastern and western been carried over the great mountains, forming the eastern and western ghauts, and through the whole extent from Fort St. George to Mani

of the listional collervation, occasioned no doubt by the collections being trawn out of its vertical position; but it is impossible to say at which of the lations this transparency, as at the three where the zenith distances were deemed the most unexceptionally, there is nothing, to appearance which can be considered competent to produce the effect is distribute. One of these three is in the cedes districts, it latitude 14' and upwards. Another site is on the table land, near Bangolere, in Lat. 13', six the most southerly one is in the controlled land, near Bangolere, in Lat. 13', six the most southerly one is in the controlled land, at 11'. The arc, comprised between the stations in 11' and 13', gives only 60461 fathoms; and that, comprehended between the stations in 11' and 13', gives only 60461 fathoms; and that there evidently has existed land cruss are designed in the controlled lands. I have, for the general latitude in the stations. I have, for the general latitude is 6044 fathoms. This measure, red ling them to the same latitude, 13' 30' 37', to hich is 6044 fathoms. This measure, red ling them to the same latitude, 13' 30' 37', to hich is 6044 fathoms. This measure, will be in the ratio of 1 to 1455 nearly the controlled polar, to the equatorial distribute, will be in the ratio of 1 to 1455 nearly.

wards, on the parallel of the mean latitude between these two places.

In the triangles of 1803, a great distance was determined between Carangooly and Carnatigher, at which stations pole for observations were made for determining the probable that other ight be found in succession, and it was then thought probable that other ight be found in succession, nearly west from Carnatighur, so as to the seat distances for connecting the meridian lines; but it was afterwards discovered that Kylasighur was preferable, and it was accordingly chosen for communing those distances to the westward, that between Carangooly and Carnatighur, as already determined in 18, regraining the first.

KYLASCHUR was laid down a in the fide Carnatighur and Hanandamulla, being given in the 30th triangle, and the fide Hanandamulla and Doonauk of the 21st triangle, was the base for finding the distance of Popnauk from Pilloor hill. From this last, and from the stock Kylasghur and Hanandamulla, etche a base, the side Kylasghur and the Likhas been obtained a amean of the two results. From this, as a base, the series has been carried on to Yerracondah and Kylasghur, depending on the measured like near St. Thomas's Mount; he particulars of which have already been parti in the 8th Vol. of the Researches.

The bale near Bangalore (n's count of which is given in Arth.) ... hen had read fe to, for inhing the fame distance, and it will appear, in the arrangement on the liangles repending on that base, that all the politic distance between Rymandroog and Yerracondah. From that the triangles are county leastward, and the fide

two feet, which will show, by proportioning the said side to the length of the new base, that had the triangles been carried on, and that base computed therefrom, it would have differed from the measurement 3.7 inches. The distance; therefore, between Kyloghur and Yerracondah, is the second great distance for connecting the presentation lines.

THE third of these distances is that between Yerracondah and Savendroog, which is had from the base Savendroog and Nundydroog to the northward, and Savendroog Deorabetta to the southward, differing to feet, the mean of which is made use of.

THE same two sides are used as bases to proceed to the westward: the stations to the northward are Devaroy 2008, Binggestly, and Mullapunnabetta; those to the southward are invasible to

very favorably with respect to each other, the positions of their meridians have been fixed, with more than ordinary care, in moving to the westward. But, as this will be more particularly treates of the principle an account of the perpendicular area deduced therefrom, I tall proceed to state the manner in which the triangles have been continued across the great mountains that form the western ghauts.

AFTER the observations were completed at Albaumahetta in Nov.

on the Malabar coast approaching, it became necessary that some previous knowledge of the country should be had, as I found that my intended direction would take me across the Bullum district, which is a part of the ghauts forming a curve convex to the eastward, and, in consequence, is at too great phistance to discover any, object on the sea coast; for I had all along jentertained hope of finding two or three flations, on the tops of these high mountains, from which to intersect the flag staves at Cannanore, Tellicherry, and Analore. For the purpose of selecting stations I had detached Lieut, KATER, one of my affifty ants, who, after encountering many difficulties, succeeded in the choice of two, one on the top of Balroyndroog, in the Bednore province, and the other on Koondhully,) mountain in the Koorg. The distance between them has been ferived from the base, Mullapunnabetta and Daesaunergooda; as is also the lifth great distance connecting the meridians of Mullapunnabetta and Balroyndroog. These stations, however, being too remote from the fea, I decided on descending the ghaups, and on the distance between them as a base, a series of triangles was carried through to Mangalore, and then designed the coast to Mount Delli and Canharere.

the sea coast required that another base should have been measured to verify the trial the triangular operations, and it was my intention that it should have been done, but circumstances and various avocations prevented it, till the scale became so far a wanced that every other object would have been done, but circumstances and various avocations prevented it, till the scale became so far a wanced that every other object would have been measured to prevented it, till the scale became so far a wanced that every other object would have been measured to

place, it was the end of April, and very shortly after that the monsoon fet in. I had, however, laid the foundation for a southern series of triangles, to be carried through the Koorg to Mount Delli, which was rendered practicable by the affiftance afforded me by the Koorg Rajah, to whole liberal aid I am indebted for the successful means I had in carrying the triangles over these stupendous mountains. Several beacons had been erected on commanding situations pointed out by me, previous to my descending the ghauts, some of which were distinctly seen from every part of the coast, and one of them (Taddiandamole) being vifited as a station, the season following, I was enabled, thereby, to intersect the slag slaves at Cannanore and Tellicherry, and also a signal lag on my former station on Mount Delli. This branch of triangles was carried on in the beginning of 1806, and commenced from Mullapunnabetta and Mysoor hill, and thence to Bestatipoor, Soobramanee hill, Taddiandamole, Kunduddakamully, Mount Delli, and Backul. From the distance between Taddiandamole and Mount Delli, Cannanore and, Tellicherry have been laid down; and upon the distance between Baekul and Kunduddakamully, a branch of triangles has been carried up for finding the distance from Bullamully to Kunnoor hill, which was also determined by the northern series, and there is a difference of 37 feet. I have been more particular in giving an account of this fouthern feries, because the object was to do away any doubt that might exist, as to the faccuracy of the northern one from the want of a base on the Malabar coast; and I think, so far as regards nautical perposes no error, of any importance, can exist. It will, however, be necessary that a base line be measured near Mangalore, from which all these distances, near the sea.

ACCOUNT OF TRIGOROMETRICAL



should be derived anew, when a more minute survey of the coast is made.

As the fituation of the places on the Malabar coast, and their relative positions, with respective the observatory at Madras, and other places on the coast of Coromandels, constitute a most important part of this survey, I have left nothing undone, in that respect, to give full and entire satisfaction. But the great accuracy required, ju these low latitudes, in afcertaining the length of a degree of longitude, has called forth more than ordinary attention; and I have reason to hope, from the many savorable and concurring circumstances, that my endeavours have been rewarded with success. The three stations best situated for determining the length of an arc; perpendicular to the meridian, are Yerracondah, Savendroog, and Mullapunnabeta; their respective distances from each other being nearly sixty-seven miles; and lying in a direction very nearly east and west, the spheriodical corrections for the angles are trisling. All the other great stations have therefore been used for connecting the meridian lines, their latitudes and longitudes being computed spherically, by using the oblique arcs, as obtained on the elliptical hypothesis, the perpendicular degrees having been found equal to 60748 fathoms, and the meridional degree 60498 fathoms, in latitude 12° 55' 10", which is the latitude of Savendroog, as had by referring to the latitude of Dodagoontah, the great station of observation, (Art. 8) for fixing the point of departure.

The scan-of 50748 1 schoms, for the length of the degree perpendicular to the meridian, in lat. 12° 55′ 10″, is considerably different from what was formerly obtained from the observations made at Carangooly. and Carnatighur, and reduced to the same latitude; but this is not to be wondered at, considering under what great disadvantages they were made, and the extreme accuracy required in making them: and it may be surther remarked, that Carnatighur is by no means an eligible station, on account of the great mass of mountains on the west, and the low sandy plain to the east, which comes to the foot of the mountain. Such an inequality of matter must doubtless produce a great lateral attraction, and sensibly affect the instrument. The station on Balroyndroog, on the top of the western ghauts, has been laid aside on a similar account.

THE relative positions of Savendioog, Mullapunnabetta, and Yerracondah, having been fixed with great accuracy, the connection with the obfervatory at Madras is effected, by working back to Carangooly, by means of the oblique arcs, (Art. 15) and then using the northing and easting, and computing spherically, by converting the easting into an arc at right angles to the meridian of Carangooly, and passing through the observatory; and also using the co-latitude of the point of intersection of the said -arc and meridian. From this computation, the latitude of the stone pedestal in the centre of the observatory is had equal 13° 4' 8."7. The pofition of the flag-staff at Mangalore, is deduced from the meridian of Balroyndroog, by using the southing and westing, in a similar manner as at Carangooly, with respect to the observatory. It is thence found to be in lat. 12° 51' 38" N. and 34' 50" W. from the meridian of Balroyndroog. By summing up the respective differences of longitude, we shall have 5° .25' 23" for the longitude of Mangalore west from the observatory; to which add 2' 22", the easting of the church steeple in Fort St. George, we

get 5° 27' 45" for the difference of longitude between the steeple in Fort St. George and the slag-staff at Mangalore.

THE meridians of Carangooly and Balroyndroog are also used for fixing the latitudes and longitudes of other places on the two coasts, as will be feen in the detailed account (Art.15); fo that by having the politions of a few places accurately laid, the general form of the peninfula may be determined, and a foundation laid for carrying on more minute surveys. both along the coasts and in the interior. I have given here the mode of computing the positions of the most remarkable places on the coasts, and of the great stations connecting the meridian lines. But from these different meridians, the latitudes and longitudes of other places are fixed by using the eastings and westings, and the northing and southing from the great stations, and computing spherically; so that the whole together amount to near fix hundred. I have subjoined to this paper an alphabetical list, which includes the most remarkable places within the extent of the survey: and I have also added a table, giving the perpendicular height of all the great flations above the level of the sea, and the ultimate comparisons of the height of a station on the beach, near Mangalore, as had by computing from this coast, and by measuring from the latter mark on the other, where there appears an error only of 80 feet. This table also contains the terrestrial refractions.

It will be unnecessary to say more here; there being sufficient, by referring to the plan of the triangles, to convey a general idea, and the adjoining detail will furnish all the materials for a more critical examinanation of the subject. The work is now grown to a magnitude far ex-

ceeding what was first proposed, and will, I hope, be adopted, as a foun-dation for a more finished superstructure, in times to come. The task has been an interesting one, and by no means arduous. Freed from restriction of every kind, and permitted to act under the most liberal conditions, I have been enabled to obviate every difficulty; which otherwise must have embarrassed my exertions, and deseated the ultimate objects of my labours.



SECTION I.

SERIES of triangles taken up at Hanandamulla and Pilloor Hill, and carried to the base near Bangalore.

I. ANGLES.

At Hanandamulla.

Retwoen Kylasghur, Pilloor Hill, 98° 19' 34".6 31 .6 34 .5	33".6
At Pilloor Hill.	
Kylasghur, Hanandamulla, 42 59 9.25 5.8 8.95	8
Patticondah 50 19 05 7 5	26.32
Bodeomulla KO 96 00 72 \$	21.07
At Kylasghur.	
Referring flag,	33.81
Yerracondah, 89 17 57.16	

At Kylasghur, continued.

Between	And Palesmulle Ct. 15/ 44/
Reterring mag,	Bodcemulla, 2° 15′ 44″ 44.25
	44 42".9 42.25
	Pilloor Hill,
	54
	53.19 54.15 53.75
	54.25)
	Patticondah, 53 2 33.81 Yerracondah, 89 17 57.61
Patticondah,	Yerracondah, 36 15 23.80
Referring flag,	Patticondah, 59 2 33.81
	Bodeemulla, 2 15 42.9
	Bodecmulla, 50 46 50.91
Referring flag,	Bodeemulla, 2 15 42,9 Pilloor Hill, 33 9 54.15
Rodomullo	
	Pilloor Hill, \$5 25 37.05
Referring flag,	Pilloor Hill, 33 9 54.15 Patticondab, 53 2 33.81
Pilloor Hill,	Patticondah, 86 12 27.96
Referring Lamp,	Pole-star's W. elongation, 3 28 57
	52.4 . 55. 2 5
	53.5
	At Bodeemulla.
Kylasghur,	Patticondah, 85 23 41.5 } 40.3
	Pilloor Hill, 93 58 8.8
	5.15 7.15 7.4 4.25
	At Patticondah.
Rymandroog,	Yerracondah, 56 22 19.75 20.37

OPERATIONS, THE PENINSULA.

At Patticondah, continued.

Between	And	4
Yerracondah,	. Kylasghur, 101	21' 48".45 }
Kylasghur,		49.1
Aylasguur,	. Domemun,	37 .15
		94 .95 > 36.8
		97 .8
		36 .9 J
	t Yerracondah.	
Referring flag,	. Rymandroog, 35	51 24 .857
•		28 .6 26.57
		28 .55
		26 .
	Tirtapully Hill, 7	3 22 43 25)
	Interputing same, sees	42 .75
		46 .25
		46 .5 47 .25
		46 .5 45.9
		46.
		46 .75
		47 .25
	<u>\</u>	46.5
Rymandroog,	Patticondub, 7	8 25 51 .857
		50 .20 \\ 52 .95 \rightarrow 51.06
		49 .85
		ر 45. 50
Referring flag,	. Kylasghur, &	4 57 10.
5 5.	•	14 .35
		12 .45 10 .5
		13.18 12.48
		14.5
		12 . 12 .25 ,
		14 .5
		10 .75
	Patticondah, 43	7 54 24 .5 T
		22.
		23.4 > 23.51
		24 .4
Savendroog,	Nundvdroog 37	23 .25 J 7 46 58 .22)
ratemuros, alesanes		58.47 58.82
		90.10
		58 .47)

At Yerracondah, continued.

Between	And					
Rymandpoog,	Deorabetta,	82•	19′	15		15′.21
Referring flag,	Savendroog,	914	16	15 13 16 16 14 14		14.97
	Ankissgherry, l	143	13	15 13	.75 } .5 }	21.35
	Rymandroog, Tirtapully Hill,	35 73	51 92	23 26	.75 J . 5 7	
Rymandroog,	Tirtapully Hill,	37	<u>51</u>	19	.03	
Referring flag,	Patticondah,	42	; 1 57	25 12	.51 .48	
Patticondah,	. Kylasghur,	12	22	48	.97	
Referring flag,	Tirtapully,	7.3 143	22	45 21	.90 .35	
Tirtapully,	Ankissgherry,	69	50	55	.45	
Rymandroog,	Decorabetta,	52 57	19 31	15 19	.21 .33	
Decorabetta,	Tirtapully Hill,	44	47	55	.68	
Referring flag,	Rymandroog,					
Rymandroog,	Savendroog, Deorabetta,					
Savendroog,	Deorabetta,	23	54	2 6	.81	
Referring flag,Pol	c-star W. elongation,	9	3		. <i>b</i> .85	

At Yerracondah, continued.

Between	And		
Reterring flag,	Pole-star's W. elongation, 9° 3'	5	. 5
2 0,	•	3	.75
		4	
		5	
		4	.25

At Rymandroog.

_						
Between	And					
Yerracondal,	Patticondah,	45.	11'	52	.15 2	51" 7
				51	.25 🕥	01 .1
	Tirtapully Hill,	49	22	56	.85 \	
	• •			5 3	.25	5.4 E.O
				55	.25	51 58
				50	.95	
	Nundydroog,	121	27	25	5)	
	2 (1)			33	.9	
				28	√ ن.	50.05
				28	.6 > .8	
				30	.95 }	
Yerracondah.	Tirtapully Hill	49	22	54	.58	
Yesracondah,	Nundy droog,	121	27	30	.05	
Tirtapully Hill,	Nundydroog,	72	1	35	.47	
a my may amy - made - made	14anoj arong)				=	

At Tirtapully Hill.

Nundydroog, 8ymandroog, 51 31 46 657 44 .25	
41.5	41.03
42.75 42.	
Rymandroog, Yerracondah, 93	
50.	51.3
49 .75 ∫ 50 J	
Deorabella	10.01
. 18 .37 §	18.04
Yerracondah, Ankissgherry, 38 16 9.9	9.25
Nundydroog, Bonnairgottah, 95 53 43.	46.21
Mundamum Station Demoissatish 21 65 15 02)	
Muntapum Station, Bonnairgottah, 31 25 15 .03 2 17 .27	16.15
Muntapum Centre, Bonnargottal, 31 25 7 .97 2 9 .95	8.96
و <i>بود.</i> و	

At Tirtapully Hill, continued.

Betzeen Savendroog,	And Allasoor Hill, 36° 5		30′.37
Deoraletta,	Savendroog, 46	27 .75 5 12 26 .25 3	24.5
Deorabetta,	Yerracondah, 97	1 18 .04	
Ankissgherry,	Deorahetta, 59 5	35 8.79	
$\mathcal{A}t$	Nundydroog.		
Rymandroog,	Tirtapully Hill, 56	23 42 .75 43 .75 42 .75	41.
Savendroog,	Tistapully Hill, 71	46 .75	
•		38 .5 38 .25	38.55
Savendroog,	Yerracondah, 89	55 29 .25 28 .4 .4 28 .4	29.02
Savendroog,	Devaroydroog, 49	30 .34	53.4 8
At	Bonnairgottah.		
S. end of the Base,	Muntapum Station, . 38 4	6 30 .02 }	31.15
Muotapum Station,	Tirtapully Hill, 51	7 53 .25 53 .6	54.62
Tirtapully Hill,	Muniapura Centre, . 51	57. 5 56 .65	50.01
		59 .55	56. 91
Muntapum Centre,		92 77	23.91
Savendroog,	Allasoof Hill, 75 5	0 27 .25 28 .5 28 .	27.92

At Bonnairgottah, continued.

Between And Dodagoontah Station, Savendroog, 83° 20 14′.75.
Savendroog,
At the Monte town Contra
At the Muntapum Centre.
Bonnairgottale, Tirtapully Hill, 97 28 55 .75 54 .85 55 . 55 . 55 . 55 . 55 . 55 . 5
55 .5) Savendroog, 69 50 45 .25 46.5
Tirtapully I(ill, Savendroog, 167 19 40 .52 43 .02 41.77
At the Muntapum Station
N. cnd of the Base,
S. end of the Base, Bonnairgottan, 35 3 56 .05
54 .75 54 .25 56.05 57 .75
Bonnairgottah, Tirtapully Hill, 97 26 51 .53 58.39
At the S. End of the Base.
N. end of the Base, Muntapum Station, 33 43 60 .4 60.06
. 01.274
Doddgoontali Station, 17 38 47 .85
48 .72 47 .88
Muntapum Station, Bennairgottah, 196 9 36 .25 3
39 .76 . 36 .5 38 .38

ACCOUNT OF TRIGONOMETRICAL

At the N. End of the Base.

Between	And					
S. end of the Base,	Muntapum Station,	89	19	21".5 19.75	,	***
				20 .25	÷	20°.75
	Dodagoontah Station	. 67	41	21.5	<i>)</i>	
		,		90.75	ĺ	
				20 .75 21 .25	7	22.55
				25 .5	•	

At Deorabetta.

Savendroog, Tirtapully Hill,			52 53 52 .75	· 52.9
Bonnairgottah,	98	54	18 -21 .5 20 .5	20
Savendroog, Bonnairgottah,	32	56		37.17
Savendroog, Bonnairgottah, Tirtapully Hill,	32 79	56 40	37 .17 52 .9	
Bonnairgottah, Tirtapully Hill, Ankissgherry,	46 - 98	44 54	15 .73 20	
Tirtapully Hill, Ankissgherry,	52	10	04 .27	

H. Measurement of the Base Line near Bangalore.

This base was executed by Lieut. Warren, of H. M. 33d Regt. then one of my assistants; and was intended as a datum for extending the triangles to the *Malabar* coast; and also as a base of verification to the triangular measurement brought from the base near *Madras*; and it appeared that, by continuing the computations the whole distance, and making this base one of the sides of the last triangle, the computation exceeded the measurement only 3; inches.

No further account need therefore be given of the manner of performing this very important and delicate part of the work, than, that in addition to the apparatus used in the former measurement near St. Thomas's Mount, there was a transit telescope, in all respects similar to that mentioned in the account of the trigonometrical survey of England for fixing objects in the alignement, and taking the elevations and depressions at the same time. The manner of using it was as follows.

When the instrument was placed at a sufficient distance behind the commencement of an hypothenuse, so as to see distinctly the mark placed on the head of the drawing post, and the elevation or depression of the hypothenuse sinally determined, the instrument, being covered from the sun by a small cloth pandal, remained in that position, till sour, or sometimes sive chains were measured. Previous to removing it, a small hooped picket was placed, by signal from the person at the transit, at a proper distance behind the termination of the last chain. In fixing the spot for this little picket, a common rod, with a sharp point, was used, and the telescope of the transit depressed to the place on the ground intended to be marked. After the spot was fixed on, and the picket driven down, the instrument was removed, and placed in the alignement, with the plummet hanging over the centre of the little picket, and then a new hypothenuse was laid out, or the former one continued.

When the hypothenuse was terminated, a register picket was driven into the ground, opposite to the arrow of the chain, and in such a manner, that when the brass head was fixed thereon, the slide might be parallel to the chain, and very near it. A piece of wood was contrived to be placed upon the brass head, and fixed by a screw, which pressed against

the end of the flider, so that when that slider was moved by its own screw, the wood, thus attached, moved with it, in the direction of the alignement, as nearly as the eye could judge. On the top of this wood was placed a T, having also a motion in the same direction with the brass slider, to expedite the operation; and on the top of this T, a brass ruler, in length about six inches, was placed, having a sliding motion at right angles to the other; and in the mildle of the projecting end, was a mark from which the plummet was suspended, and by the two motions, at right angles to each other, the plumb line was easily brought to cointie with the arrow terminating the hypothenuse. A like operation was gone through with the commencement of the next hypothenuse, and the arrow brought to coincide with the same plumb line. Here the distance of each arrow above or below the brass rule was noticed as in the former measurement.

Ir, after the removal of the transit, the same hypothenuse was continued, the register picket, at the end of the chain, was lest standing; and when the instrument was brought into the alignement with the plummet over the mark, nothing was required but to place the telescope at the former elevation or depression, and move the cross vane which is applied to the neads of the pickets and stands, till the appropriate mark coincided with the horizontal wire in the socus of the eye glass.

Experiments, made for comparing the Chains, previous to the Measurement.

Month.		The	rnom	eters.		Mean of 5 Thermometers.	Comparisons.
1804.	1	2	3	4	5	Mo S	
May 28. A. M.	73 73 74 74 74 74 75 75	73 74 74 74 74.5 75 76 77	72 73 74 74 74 74 75 76 78	72 72 73 73 73 74 74 75 76	73 74 74 73 73 74 75 75 76	72.6 73.2 73.8 73.6 73.6 74.2 75.0 75.6 77.2	Divisions. The old chain exceeded the new one by 17.5 16.00 15.75 16.00 15.5 14.75 14.75 15.00 14.00
				1	Mean	74.3	Mean 15.47

Experiments, made for comparing the Chains, after the conclusion of the Reasurement.

1804. 1 July 12. 78 A. M. 80	78.5	79	4	5	Mean of 5 Thermometers	Comparisons.
A. M. 80		70				
81 80 81 81 81 82 82 82	81 81	79 80 80 80 79.5 80 79.5	78 80 77 80 80 81 81 81.5 82 82	80 80 78 79 90.5 82 81.5 82 81	81.210	### Divisions The old chain exceeded the new one by 18.25

ACCOUNT OF TRIGONOMETRICAL

Table, containing the Particulars of the Medisuccement,

No. of the Hy.	fert.	Angles o	Defactions om each Hypothenuse.	Perpe	ndicular.	men	mence- t from last.	an of 5 tometers.	
No. o	m feet.	E & D	1 5	Ascents.	Descents	Abov	e he/ou	ع ت	REMARKS.
1. 2. 2. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	500 500 500 600 600 600 600 600	0° 16′ 01″ 0° 2° 17′ 0° 2° 2° 56 0° 2° 58° 51° 11° 13° 15° 15° 15° 15° 15° 15° 15° 15° 15° 15	feet .00648 .00012 .00892 .03636 .09080 .00354 .00675 .05208 .07188 .09682 .11096 .05151 .01990 .00402 .02132 .11564 .19026 .21812 .01758 .01450 .00582 .04228 .15840 .05680 .04540 .00756 .01027 .11940 .22320 .0070 .02208 .00610 .04900 .10404 1	feet 0.5985 2.1860 1.4471 18.6697 6.7425 6.7387 3.2630	feet .2.7954 2.6664 4.6707 8.5224 1.4595 3.4754 9.1337 6.5663 4.1428 13.3220 5.5585 2.8215 5.0658 12.7257 15.1096 17.4740 2.6518 3.8057 4.1119 1.8631 4.13631 4.13631 4.13631 4.13631	6. 4 1. 1 4. 7 3. 4 16 2. 9 4. 9 3. 6 7. 5	5.5.5.89 7.5.5.89 7.4.9.5.90 19.6.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.90 10.	94.8 86.5 84.9 82.1 83.4 96.6 81.9 81.8 80.2 88.5 82 86.7 74 83.4 88.1 89.8 99.8 99.8 95.8 79.7	Commenced the 26th May 1804.
40 800 41 900 42 900 43 500 44 30	0 0 Le 0 0 0 1 0 2 0 1	40 44 evel 52 17 14 41 5 1.5 20 55.5	.08424 1.02319 07080 08313 083	3.0416 5.5168 3.1801		1. 9	8.25 8 7 8 3. 3 8	1.4 4.3 7.1 0 3.9	
-01 20	vv	48 42	.02008	2.8331	1	7. 5	9	3.6	

Table, containing the Particulars of the Measurement, continued.

				•	-		_	•			
Hy.	each	And	gles of	II.y.	Parne	ndicular.		ment		5	
o. of the II po'henuse.	5.2	3	5.03 0)	Deductions on each III, pothenuse.	Leiper	745L #141 .		t fro c last		Mean of 5	
100	\$ 3	' 		ed u			-		 -	Mean	REMARKS.
No. of the Hy-	Length in fee	E.	S. D.	from pod	Ascents.	Descents		e bel		Ther	
				feet	feet	feet	i —	,			
46	500	_	27'	.00114	ļ	0.8947			75		
47			46.5	.01259		4.1172	1	R.		81	
48 40		200		.30587		17.1560	l	<u> </u> 5.	8	88.6	
50		0 49		.05056	i	4.9450	15.			89.8	
51		0 16		.00177	0.0500	1 0583				82.1	
52	500		27	.00250	0.9599					80.5 89.1	
59	500		31.5	.11437	11.2067 10.6929		111. 7	10.	1	90.8	
51		0 51		.05428	6.0182		Į.	5.	**	71	
5.5			31.5	.00596	0.0102	1.8922		17.		88.9	
56		1 38		. 16300		11.4178	ł	8.	3	94.2	
57	500		58.5	.30087		13.4323	0.		•	91.2	
58		0.54	21	.02504		3.1647		5		82.2	
59		0.59		.00808	1.8645		!	8		71.8	
60	600			.37490	20.6314		12.			84.7	
61	600			.31514	19.44.39		1	8.	6	95.2	
62	700			.92131	17.6012		1	4.	. 5		
65	500			.03100	5.5667		-	14	_	59.8	
64	800		¥	.00128		1.4505	1_	_ 9.	. 2	79.6	1
65 66	400 500			.01276		3.1939	7.	5		57.8	Ī
67	4	l 13 l 42		.11300		10.6275	1	6.	. 2		[
68	500			. 17630 .45395	•	11.8752	8.	12		86.7 79.5	
69	200		3	.00167		21.3011		D		71.7	
70	200			.01113	2.1103	0.8174	13 3. 1	ьĺ		79.1	ĺ
71	900			21581	11.9174		25	P		94.9	
72	900	47	22	.09752	6.2453		120	2.	3		
73	400		43.5	.18208	8.3450		21.		•	72.4	
74	900		11	.06453	10.7815		4. 9			87.6	
75	300		13	.01579		3.0759		111		76.8	
76	200		43	.03222		9.5903	0. 5	5		70.8	
77	30 0			.00053	0.5585		2.75			77.6	
78	200		- 1	.17483	8.3606				- 1	87	
79	400 800	և չ) 3 ջ	28.5	.06820	7.3852	m 45	26. £			87.8	
80	700			.03512	4 0000	7.4971	14 0-	22.	1	80.2	
81	600			.01568	4.6799	Ty.	14.37		1	70.7 71.6	
83	400	•	35	.05697 .06008	8.2668		11 11.55		ļ	83.0	
84	400			.06788	6.9325				,	79	
85	300			.00126	7.3687 0.87 2 7		7.]	3.			Completed 11th July.
55					ination o	.C.1L. >	ı		91	1	Completed 11th July.
	ט					n the f.	•	. 34			
- 6/	98001			he groun) (100°	. 1		- (3)		
J:						278.4189					
	Nor	th al	pove th	e South	extremity	of the ba	se =	89.7	4 te	et.	4"7000

At the commencement the old chain exceeded the new one 15.47 divisions of the micrometer = 0.00619	
feet. Therefore 398 × 100 00619 feet will be the	Feet.
measure in terms of the new chain,	•
At the conclusion the old chain exceeded the new one	39802.4636
•	
17.9 divisions, and had therefore increased 2.43 divi-	
sions = 0.00097 feet. Hence 398 $\times \frac{0.00097}{1} = 0.1930$	
feet, is the correction for the wear, which add,	- + 0.1930
The sum of the deductions from col. 4th is 6.63475 feet,	
which being increased in the ratio of 100 to 100.00619	
will be 6.6351 feet, which subtract,	<u> </u>
Clongs the apparent harizantal distance will be	2020@2017
Hence the apparent horizontal distance will be	39796:0215
The correction for the expansion and reduced	
to the standard temperature of 62° will be	-
$\frac{(83^{\circ}.1-50^{\circ})\times 0.0074-(62^{\circ}-50^{\circ})\times 0.01237}{10}\times 39796.$	
0215 feet, which add,	+ 3.1996
	
Hence the corrected measure of the base for the tempe-	
rature of 62° will be	39799.2211
To which add the correction for reducing all the hypo-	
thenuses to the level of the S. end of the base,	+0.0893
	39799.3104
Which hains undered to the level of the con-	***************************************
Which being reduced to the level of the sea will be -	39793.7

III. TRIANGLES.

	Hanana	lamulla from	Pillo	or l	Iill 1	10381.9)	
Vo.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Erior.	Angle Ca'culo		Distance in feet.
15	Hanandamulla, Pilloor Hill, Kylasghur,	98° 13′ 33″.6 42′ 59′ 08 38′ 47′ 22′.4	-0.6			98° 13′ 42° 59 58° 47	7 21 .5	
		Kylasghur from	n § Han	andaı	mulla,	• • • • • • •		120135 174387.3
	Hana n	damulla froi	m Kyla	isghi	ur 12	0128		
	Hanandamulla, Kylasghur,. Pilloor Hill,	98 13 33.6 38 47 22.4 42 59 8	-1.8 -0.6 -0.7			98 13 98 47 42 59		
46		180 00 04		3.1	+0.9	180 00	00	
		Pilloor Hill from	n₹		•			110375.6 174377.8
	Kylas	ghur from F	Pilloor	Hill	1745	82.3		
477	Kylasghur, Pilloor Hill, Patticondah,	86 12 27.96 50 13 26.32	—3.7 —2.14			86 12 50 13 49 34	24.25	
47						180 00	00	
	1	Patticondah fro	m ₹					194447.4
	l _e		(•Pill	oor H	ill,			252 452.9

ACCOUNT OF TRIGONOMETRICAL

TRIANGLES-CONTINUED,

	Kylasį	ghur from I	Pillour	Hil	1745	82.5	
No.	TRIANGLES.	Obsd. Angles.	Difference.	spherical Ercess.	Errer.	Angles for Calculation.	Distance in fect.
48	Kylnsghur, Pillooi Hill, Bodeemulla,	50 36 21,07	-0".8 -0 .7 -1 .7			35° 25′ 35 ′ .5 50 36 20.5 93 58 4	" o m sales
40		180 00 4.57		3".2	+1'.57	180 00 00	
	. 1	Bodeemulla from	n >	•	-		13 50 85.8
	Kylas	ghur from 1	Bodcem	ulla	1350	85.8	
	Kylasghur,	50 46 50.91 85 23 40.3 43 49 56.9	-1.5 -2.2 -1.3			50 46 48.75 85 23 37.25 43 49 31	
49		180 00 741		4.5	+2.61	180 00 00	
	1	Patticondalı fro	m ₹				
	Kylasg	hur from F					
	Kylasghur, Patticondah, Yerracondah,	01 21 48.77	-1.5 -4.8 -1.4			36 15 25 01 21 45.75 42 22 49.25	
i0	1.	80 00 2.34		7.7	-5.3	80 00 00	
	T .	erracondah fro	m⊰ʻ	lasghu	uct		482822.5
- 1		4	(l'all	ticond	ab,		170007.3

Triangles taken up at the Base, and continued back to Perracondant lay-

·			-				
	N. end of the	Base from	he S. e	nd of	the B	ışe 3 979 3.7	
No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Ercess.	Error.	Angles for Calculation.	Distance in feet.
51	N. end of the Base, S. end of the Base, Muntapum Station,	89* 19' 20''.75 33 44 0 .06 56 56 41 .49	-0 .06	5		89° 19′ 20″ 33° 43° 59.3 56° 56° 40.7	
		T80 00 02 .25	1	0".24	+ 1" 99	180 00 00	1
	1	Muntapuin Sta	tion from	۱₹		he Base,	26365.98 47475.03
	S. end of th	e Base fron	n Munt	apum	Statio	n 47475.0 3	
52	S. End of the Base, Muntapum Station, Bonnairgottah,	106 9 37.79 35 3 56.09 38 46 31.19	i -0 .0t	3		106 9 35.9 35 3 54.5 38 46 29.6	
<i></i>	1	180 00 04.9	5	0.47	+4.45	180 00 00	7
	4.	Bonnairgotta	h from	?		Base,	43551.7 7 28 11.7
	Muntapi	ım Station	from B	onnai	rgotta	h 72811.7	
53	Muntapum Station, Bonnairgottah, Firtapully Hill,	97 26 53.3 51 7 54.6 31 25 16.1	⊉ 0 .೮	7		97 26 53.9 51 7 54.2 31 25 11.9	
33		180 00 4.10	;	1.85	+2.31	180 00 00	1
		Tirtapully Hi	∐ from ₹	!	-	tation,	108746.8

TRIANGLES-CONTINUED.

Bonnairg	ottah from	Tirtapu	lly F	till 13	8492.9		
TRIANGLES.	Obed. Angles,	Difference.	Spherical Excess.	Error.			Distance in feet.
Bonnairgottah, Tirtapully Hill, Muntapum Centre,	91 25 8 .96 97 28 55 .27	-0 :4 -1 :1	1'.9	0' .76	31 25 97 28	9 54 .5	ì
M	untapum Centr	e from \dashv					72815.6 108705.1
Muntapi	um Gentre fr	om Bo	nnair	gottah	72815	.6	
Muntapum Centre, Bonnairgottah, Savendroog Station,	70 52 23.91	0.6			70 58	23.5	
	180 00 01.29		11.7	-0.41	180 00	00	
	Sevendroo	g from					108661.6 1079 6 8.7
The state of the s	Bonnairgottah, Tirtapully Hill, Muntapum Centre, Muntapum Muntapum Centre, Bonnairgottah,	### TRIANGLES. Obed. Angles. Bonnairgottah,	Bonnairgottah, 51° 5′56″.91 -0″.4 51° 5′ 5′ 9′ 28 5.96 -0 .4 97 28 53 .27 -1 .1 1 97 28 53 .27 -1 .1 1 97 28	TRIANGLES. Obed. Angles. E E Calculation.			

With the sides Muntapum centre from Tirtapully hill 108705.1 feet, and Muntapum centre from Savendroog = 108661.6 feet, and the included angle at Muntapum = 167° 19' 29".3 the side Savendroog from Tirtapully hill is found = 216038.9 feet.

AGAIN with the sides Bonnairgottah from Tirtapully hill 138492.9 feet, and Bonnairgottah from Savendroog = 107968.7 feet, and the included angle at Bonnairgottah = 121° 58′ 19″ the side Savendroog from Tirtupully hill is found = 216038.8 feet, differing from the above $\frac{1}{12}$ of a foot, and of which the mean is 216038.85 feet.

TRIANGLES-CONTINUED.

	Savendro	og from Tir	tapully	y Hi	22 210	6038.8	5	
No.	TRIANGLES.	Obså. Angles.	Діваснос.	Spherical Excess.	Erre.	Angi Calcu	es for lation.	Distance in feet.
**	Savendreog, Tirtapully Hill, Deorabetta,	\$3° 36' 47".5 46 42 24 .5 79 40 52 .9	-1 .9				45*.5 92 .5 52	
56		180 00 04 .9		6".6	-1".7	180 00	00	
	1	Decrabetta from	١ 🕻		•			1598 \$ 8.8 176 775.8
	Savendroog, Tirtapully Hill, Nuadydroog,	37 44 43.15 70 48 41.9 71 26 38.55	-2.4			70 48	41.25 49.5 96.25	,
57		180 00 03.6		6.7	-3.1	180 00	00	Ì
	1	Nundydroog fr	om ≺			 I,		2152 3 6.3
	Tirtapi	ully H ill fr	om Ni	andy	droog	13949	9.8	
58	Tirtapully Hill, Nundydroog, Rymandroog,	\$1 31 \$4.03 56 23 44 72 4 \$5.47	1.0 1.0 1.2			51 31 56 28 79 4	49.5	
		180 00 8.5		3 .15	+ .35	180 00	00	
	1	lymandroog fro	m₹		lly Hill roog, .	,		1221 12 .3

ACCOUNT OF TRIGONOMETRICAL

TRIANGLES-CONTINUED.

	Tirtapull	y Hill from	Ryma	ndroo	g 1221	113.5	− -₹.
No.	TRIANGLES.	Obsd. Angles. ·	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
•	Tirtapully Hill, Rymandroog, Yerracondah,	49 22 54.58	-1 .04			93° 5′ 49″ 49 22 53 37 31 18	
.59		180 00 5.21		4".2	+1".01	180 00 00	
		Yerracondah i	rom ₹	_	•		
	, Tirtapu	lly Hill fro					
	Tirtapully Hill, Deorabetta, Yerracondah,	97 51 18.04 44 47 55.89				97 51 14.4 97 20 51.1 44 47 54.5	
60						180 00 00	
		Yerracondah i	from J	irtapui corabe			. 152197.5 . 248529.3
	Tirtapully Hill, Deorabetta, Ankissgherry,	52 10 4,27	—1.76 —1.67		Set.	59 35 7 52 10 9.6 68 14 50.4	
61		ı				180 00 00	
		Ankissgherry f	rom 🖁	_			150 322. 7
			(1)	UI BUCL	w,		1.01100.0

TRIANGLES-CONTINUED.

	Tirtapui	lly Hill fron	n Ankis	sgher	ry 150	332.7	
No.	TRIANGLES.	Obid. Mngles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
60	Tirtapully Hill, Inkissgherry, Yerracondah,	58° 16′ 9″.25 69 50 35° .4			1	98° 16′ 8″ .25 71 53 17.5 69 50 34.25	
68				•		180 00 00	
	••	Yerracondal	, from {	_	oully Hi sgherry,	•	15 2196 .5 99177.5
	Tirtap	ully Hill fro	m Yer	racono	lah 15	2196.9	
	Tirtapully Hill, Yerracondah, Rymandroog,	93 5 51,3 37 31 19.38 49 22 54.58	1.03	1		93 5 49 97 31 18 49 22.53	
63	1	180 00 05.26		4'.2	+1.06	180 00 00	
		Rymandro	g from	₹	pully II		122121.5 200214.5

THE side from Tirtapully hill to Yerracondah is the mean distance found in the triangles Tirtapully hill, Deorabetta, and Yerracondah and Tirtapully hill, Ankissgherry and Yerracondah.

64	Yerracondah fi im Rymandroog 200214.3											
	Yerracondah,	78 5 45 56 5		51.06 51.7 20.37		.9	7.9		45 56	11 22	47.75 52 20.25	
	Patticondah from { Yerracondah,										170 605 .9 235558.9	

TRIANGLES-CONTINUED.

	Yerrac	condah from	Patilico	ndah	17060	5.9		
No.	TRIANGLES.	Obad. Angles.	Difference.	Spherical Excess.	Brror.	An Calc	gles for ulation.	Distance in feet.
	Yerracondah,	42° 22′ 48″.97 101 21 48 .77 36′ 15′ 24 .6	-4 ,8			101 9	2° 49″ 2 5 81 ° 4 5.75 15 2 5	
		180 00 2 .34		7".7	—5".3 6	180 (00 00	<u> </u>
	,	Kylasgh	ur from	₹	raconda ticondal	•		282820.3 194445.9

SEÇTION II.

' SERIES of triangles direct from the Base near Bangalore, to Mangalore on the Malabar coast.

IV. ANGLES.

At Dodagoontah Station.

Between	And	4	•	
Bonnairgottah,	AndSavendroog, 61.	34	49 55	51″. 29
Referring Lamp,	Pole-star's W. clengation, 1	31	50	

OPERATIONS IN THE PENINSULA: At Savendroop.

Between	And	
Deorabetta,	Bundhully Hill, 44*41*41*:44*41*:40.5	40".93
,	Nundydroog,50 14 6.7 7. 5.2 3.5 7.2 8.5	5 6.97
Cheetkul Hill,	Devaroydroog, 6 56 11.9 10.8 16.5 16.3 12.0	3 13.43
Devaroydroog,	Bomanelly Hill, 51 25 1.7 2 2.5 2.5 2.2	2.19
}	64.6	6 62.35
,	Mysecr Hill,	33.68
	Mullapunnabetta,46 23 6.3 5.8 6.5	4 6.26
Metering Lamp, esamenas	Mullapunnabetta, 90 39 58.3 59.24 60.75 61.25 62.5 61.5 61 62.25 62.75 60.5 62 63.75	61.16

At Savendren, continued.

Between	And	
Referring Lamp,	Yerracondah,	A.
	48.55 48.5 50.68 50.5 48.87	".45
Po	ble-star's greatest W. elongation, 2 28 56.75 57.25 54 53.5 57.75 56 58.75 58.75 58.25 61.12	
	At Devamondroom	
Cheetkul Hill	At DevaroydroogRungaswamy Hill,89 48 17.25 \ 10	
	18 18 18 18 19 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	7.62
· ·	47.6 \$Nu dydroog,	4.8
	8.25∫	8.45
Rungaswamy, Cheetkul Hill,	9.5 7 Bomanelly Hill 44 89 50.35 Rungaswamy, 82 48 47.69	
Bomanelly Hill, Savendroog,	Chectkul Hill, 127 47 47.97 Chectkul Hill, 58 14 4.75	
Bomanelly Hill, Bomanelly Hill,	Savendroog,	
Bomanelly Hill,	Savendroog,	
ì	At Bomanelly Hill.	
Hytalloo Flag,	Mullapunnabetta,175 40 1.58 0.87 0.75	

Ocenderous in ites Peninsula.

At Bomunelly Hill; continued.

Between	And				٠
Hytailoo Flag,	Trvendroog,	· 70·	9- 1	19.75 19.75 19 21.5	19".94
Referring Flag,	Mullapunnabetta,	. 86	15	22,75 26.5 24 21.12	24. 34
	Daesauneegooda,	. 131	4	38.12 39.75 37.25 40	<i>3</i> 8.78
Hytalloo Flag,	Mullapunnabetta, Savendroog,	. 175 . 70	40 9	1 19.94	
Mullapunnabetta,	:Savendroog,	. 105	30	41.06	
Referring Flag,	Mullapunnabetta, Daesauneegooda,	- 86 - 131	15 4	24.34 38.78	
Daesaunosgooda,	Mullapunnabetta,	. 44	49	14.44	
Dacsauncegooda, .,	Mullapunnabetta,	. 44	49	15.87 12.5 14.88 16.37	14.90
Ditto,	Do. by the Referring I	4mp	, - <i>-</i>		14.44
				Mean	14.67

At Mullapunnabetta.

Referring Flag, Bomanelly Ifill, 143 22	60.5 59.5 60.75 63 58 61 59		60.25	
	, J	į		

Between

Account of Trigonomstrickt

At Mullapunnabetta, continued.

And

	ING		
Referring Flag,	vendroog, 97. 4	1' 34".25 36.38 36.62 34 85.4 \$5.25 82.5 32.5 32.5 33.5 34.5 85.25 33.8 33.8 33.8	34".36
М	yeoor Hill, 97	59 19 10.75 19.75 19.25 14 10.5 12 12.25 14 18.25 14 18.25	12.58
	esauneegooda, 1	32.75 25.25 } 35.5 32.5	33.6
	ondoor Hill	24.15 22.75 20	22.94
Referring Flag,		43.75 43.75 43.75 45.25 46.25 46.75	44.68
Koondhully II, 41,IIa	ana belta,	61.75 61.75 60.5 58.5	60.65

OPERATIONS IN THE PENIMSULA.

At Mullapunnabetta, continued.

Between	And	
Meferring Flag,	stroyadroog,	96° 36′ 48″ "7 46.25 44
		49.25 44.75
		48 48 45.25 46".9
		47.5
~ . ✓		45.75 44.25
Referring Flag,	Bomanelly Hill, Savendroog,	97 41 34.36
Bomanelly Hill,	Savendroog,	45 41 25.89
Referring Flag,	Mysoor Hill,	37 59 12.58
	Savendroog,	97 11 34.36
Savendroog,	Mysoor Hill,	. 59 42 21.78
Referring Flag,	Bomanelly Hill, Daesaunergooda,	_148 23 00.25 _150 36 33.6
Bomanelly Hill,	Daesauneegooda,	- 66 00 26.15
Referring Flag;	Darsauncegooda, Koondoor Hill,	150 S 6 S8 .6 71 S 7 22.94
Daesauneegooda,	Koondoor Hill,	78 59 10.66
Referring Flag,	Deasauneegooda Koondhuliy Hill,	150 36 33.6 -55 38 44.68
Dacsauncegooda;	Koondhully Hill,	. 94 57 48.92 . 45 32 00 65
	Daesaunergooda,	
Referring Flag,	Koondoor Hill, Koondhully Hill,	. 71 97 22.94 . 55 58 44.68
Koondoor Hill,	Koondhully Hill, Koondhully Hill,	15 58 38 96 45 92 00.65
	Koondoor Hill,	
•	·	
Referring Flag,	Koondhully Hill, Balroyndroog,	. 55 38 44.68. . 96 36 46.3
Koondhully Hill,	,Balroyndroog,	. 40 58 1.62

At Mullapunnabetta, scontinued.

At Muuapunnaoetta, joonus	wed.	
Between And		
Referring Lamp, Pole-star's groutest W. clongation 170 45' 1	5".25	
, , , , , , , , , , , , , , , , , , , ,	18 18.37	
	19.13	
	19.38 2 0	
•	19.62	
	90	
	19.25 19:25	
170 43		
	48.2 5 48 .13	
	47.75	
	49.25 48.2	
	48.5	
	50.25	
•		
At Bundhully.		
Savendroog,	28.5 31.75	30."12
Mysoor Hill, 80 2	42.44	44.19
	45.94 \$	72.10
At Cheethul Hill.		
Sundana Demonstrate 1940)	45 105	
Savendroog, Devaroydroog, 18499)	45.13 4.13 9 5	44 44
	44:25	45.16
	4 7)	
At Mysoor Hill.		
Referring Flag Bundhully Hill, 55 26	46	
	45,75	45.22
Samundana 100 17		
Savendroog, and and a 17	43.75	45.19
	46	49.49
	#1 J	

OPERATIONS IN THE PENINSULA. At Myloor Hill, continued.

/Excluseen	And		
Referring Flag,	. Mullapunnabetta,	177 47' 26"	
, .,	1	25.45 27.89	
		28.5 27	26".5
,		27.5 25.25	
•		25.5 25.43	
Referring Flag,	Bundhully IIill,	. 55 26 45.22	
`\ 	Savendroog,		
Candhully Hill,			
Referring Flag,	Savendroog,		
Savendroog,	Mullapunnabetta,	. 73 54 48.31	
A1	D ====================================	7	
At	Daesauneegood	la.	
Mullapunnabetta,	Bomanelly Hill,	20.5	25.94
	Hannabetta,	89 54 5.63	•
		5 7.37	6
	Koondoor Hill,	. 47 3 26.5 2 3.37 3	21.93
Hannabetta,	Koondoor Hill,	42 50 41.62 59.15	40.37
	1	55.10 y	
	At Koondoorbei	LL	
_			
Mullapunnabetta,	Dacsauncegooda,	32.75 31.75	31.17
	Hannabetta,	.119 34 16.25	16.25
	Balroyndroog,	47	47.25
Koondhully Hill,		15.75 €	17.37
Mullapunnabetta,	Balroyndroog,	141 10 47.25	•
D.1. 1			
Balroyadroog,	Hannadetta,	. ZI 36 31	

ACCOUNT OF TRIGONOMETRICAL

At Koondoorbetta, continued.

Between And	
Mullapuunabetta,	
Dacsauneegooda,	
Mullapunnabetta, Balroyndroog, 141 10 4/.25 Koondhully Hill, Balroyndroog, 75 12 17.37	
Mullapunnabetta,	
At Koondhully Hill.	
Koondoorbetta,	12′.08
Mullapunnabetta,Bettatipoor Hill, 57 53 42.5 41 42.5 39.75	41.44
Bairoyndroog, 99 12 24.25 22.25	22.25 :
Koondoorbetta,	
Mullapunnabetta, Koondoorbetta, 20 24 30.64	
At Hannabetta.	
Daesaunergooda,	95
Koondoorbetta,Balroyndroog,136 19 19.87 14.88	17. 37
At Balroyndroog.	
Referring Flag, Bullamully IIII, 169 57 5.13 6.37 9.75	4.41
2.37) Koondhully Hill, 88 44 51 54.5	2/15

At Balroyndroog, continued.

Between And			
Referring Lamp, Pole-star's W. clongation,	56-46	16".5	
account manney, and a second manney,		43.75	
		43.25	
		43	
		44.5	
		44.25	
Th. 6	00 44	48.44	
Referring Flag, Koondhully Hill,	169 57	4.41	
Koondhully Hill, Bullamully Hill,	81 12	11.66	
		-	
4,			
At Bullamully	-		
Koondhully Hill, Balroyndroog,	57-46	90).	
		29.25	
		27.25	90".49
•		31.5	00
•		31.75	
Balroyadreeg, Kannoor Hill,	114 41	39.75	13.5
Bullanaudgooda,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15.75 %	10.0
Politica de la contra del la contra del la contra del la contra de la contra del la contra de la contra de la contra del la	50 00	22	
		21.75	19.19
		17.25	
Bullanaudgooda	. 79.17		
		43.13	42.17
	0.00	44.37	
Goompay Hill,Kuddapoonabetta,	. 89 14		45 75
•		41.13	41.56
Meejar Hill, Kuddapoonabetta,	GA . OF	39.38	
wiecher rimit and a see a see a see a serial residence from the serial see a see	ON 01	30.5	32.87
Balroyndroog, Mangalore,	123 11	27.75	
		25.5	25.92
		24.5	
Kunnoor Hill, Balroyndroog, Bullanaudgoods, Balroyndroog,	118 21	13.5	
Bullanaudgoods, Bairoyndroog,	80 53	19.19	
Kunnoor Hill, Bulkmandgooda,	160 45	97 91	
Goompay Hill,	70 17	49 17	
Goompay Him,	10 17	74.11	
Goompay Hill,Kunnoor Hill,	81 27	45.14	
Kuddapoonabetta,	89 14	41.56	
•			•
Kunnoor Hill, Kuddapoonabetta,	7 .40	56. 4%	
•			
Balroyndroog, Bullanaudgooda, Bullanaudgooda,	80 55	19.19	
Bullanaudgooda,	, 79 17	42.17	

At Bullamully, continued.

Between	And	
Bairoyndroog,	Goompay Hill, 160° 11′ 1″.56 Mangalore, 123 11 25.99	
Goompry Hill,	Mangalore, 76 S7 32.72	
Balroyndroog, Kunnoor Hill,	Kunnoor Hill, NS 21 19.5 Kuddapoonabetta, 7 46 56.42	
Kuddapoonabetta, Meejar Hill,	Balroyndroog,110 34 17.08Kuddapoonabetta, 34 57 32.57	
	Balroyndroog, 75 56 44.21	
	At Ungargooda.	
Balroyndroog,	Bullamully Hill, 91 20 62.25 59.25 59.5 62	60″.7 <i>5</i>
•	30.25	27.88
Mæjar II iñ,	Booggargooda, 28 59 12.75	10,25
	At Booggargooda.	
Bullamully Hill	Meejar Hill,	,
	44 45.75 44 41 44.75	IS. 08
	Ungargooda,, 21 3 58 55 54 55.75	55.5
Ballamully Hill,	56.5 53.75 Meejar Hill,113 5 49.08 Ungargooda, 21 3 55.5	
Meejar Hill,,-	Ungargooda, 134 9 38.58	

At Meejar Hill.

•	
Between And	
Bullamully Hill, Booggargooda, 54 37' 20".62)	
17.88	18".67
17.5	
Kuddapoonabetta, 49 7 52	EQ.CH
5 9.25 56.75	53:67
Kuddapoonabetta,	
19.75	
20,25	19.94
21.25	
4+ Valdahamahatta	
At Kuddapoonabetta.	
Bullamully Hill, Meejar Hill, 96 14 31.5 }	01 00
31.25 🕻	31.37
Kunnoor Hill, 48 38 44.25 2	45.5
46.75	20.0
Kooliebogooda,	
57.75 5 5	56.62
58.5	
Ledgah Station, 86 11 35.5	
30 }	32.08
30.75)	
At Kunnoor Hill.	
Bullamully Hill, Kuddapoonabetta, 123 34 21.25	01.10
21	21.12

V. TRIANGLES,

	Bonnair	rgottah from	Save	ndroo	g 10	7968 7		
No.	TRIANGLES.	Obsd. Angles.	Difference	Spherical Excess.	Error.	Angles for Calculation.	Distance in seel.	
	Bonnairgottah, Savendroog, Dodagoontah Station, .	83° 20′ 16″.17 61 34 51.29				83° 90′ 15 .4 55 4 53 .8 61 34 50 .8		
66						180 00 00		
	Dodagoontah Station from Savendroog,							

1

ACCOUNT OF TRIGONOMETRICAL

	, Savendroog from Deorabetta 159828.8	*
No	TRIANGLES. Obsd. Angles.	Distance in feet.
•	Savendroog,	
67	180 00 08.8 6".9 + 1".9 180 00.00	
	Bundhully from Savendroog, Deorabetta,	. 260072 - 184620.5
	Savendroog from Nundydroog 215226.3	
68	Savendroog,	
UC	180 00 8.3 6.54 + 1.76 180 00 00	
	Devaroydroog from Savendroog,	167293.7 168058.8
	Savendroog from Deorabetta 159828.8	
ì	Savendroog, 78 57 47.5 —2 .26 78 57 45 Deorabetta, 47 20 38.73 —1 .55 47 20 37 Allasoor Hall, 53 41 39.59 —1 .69 53 41 37	
69	180 00 05.82 5.4 +0.42 180 00 00	
	Allasoor Hill from Doorabetta,	145859.1 194662.8

	Squenc	droog from	4.1.1.4.500	r Hili	1458	59.1	
No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
	Savendroog,	55°11 S4'.92 62 10 43.71 62 7 47.87	-1 .4			55° 41′ 32 .8 62 40 41.5 62 7 45.7	
70		180 00 06 .5		4".2	+2'.3	180 00 00	
		Cheetkul Hill fr	om. ₹	vendroe lasoor,			145924 8 136292 3
	Savend	roog from C					
	Savendroog, Cheetkul Hill, Devaroydroog,	6 56 13.43 134 49 45 16 38 14 4.75	-2			6 56 12 5 134 49 42.5 38 14 5	1
71		180 00 9.94		0.7	+2 64	150 00 00	
	1	Devaroydroog fi	rom ₹	vendro retkul			167221.8 28477 0
	Savend	roog from D	evaroya	droog	167229	9 2 5	
70	Savendroog,	51 25 2.12 89 33 44.01	-2 .1 -4 .1			51 25 00 89 33 40 39 1 20	
72					1	80 00 00	
		Bomanelly H	ll from	₹	droog, roydroog	1	205594.9 2076 22 .1

ACCOUNT OF TRICONOMETRICAL

	Savendroog from Bomanelly Hill 265594:9	
No.	TRIANGLES. Obed. Angles.	er for Distance
73	Savendroog,	33.6
10	180 00 9 .3 10'8 1'.5 180 00	00
	Mullapunnabetta from Savendroog,	
	Savendroog from Bundhully Hill 260072	
74	Bundhully, 80 2 44.19 -6.2 80 2 52 50 59.97 -4.2 52 50	
	180 00 17.84	321385.4
	Savendroog from Mysoor Hill 321385.4	
75	Savendroog, 46 23 6:2 5 .7 46 22 Mysoor Hill, 73 54 48.31 -7 .7 7 59 42 21.78 -6 .3 59 42	15.5
	180 00 16.55 19.7 - 9.35 180 00	00
	Mullapunnabetta from Savendroeg,	

	Savendro	og from Mi	ıllapun	nabei	ta 357	641.9			
No.	TRIANGLES.	Obsd. Angle	Difference.	Spherical Excess.	Error.	Angles f Calculation	or on.	Distance in feet.	
	Savendroog,		7 -1.5			28° 48 00 45 41 26 105 30 33			
76 `		180 00 8.78	3	10'8	2' .02	180 00 00	1		
	Boma	nelly Hill fro	m ₹			,		265592:8 178807.7	
	Saven	droog from	Mullap	unna	betta s	357641.2			
	Savendroog Station, Mullapunnabetta, Mysoor Hill,	46 23 6.2 59 42 21.7 73 54 48.3	8 -6 .3	1		46 23 0 59 42 15 73 54 44	.5		
77		180 00 16.5	5	19.7	-3.35	180 00 00	5	——————————————————————————————————————	
	Mysoer Hill from Savendroog Station,								
	Mul	lapunnabeti	a from	Bon	anelly	178807.	7		
	Muliapunnabetta, Bomanelly Hill, Dacauneegooda,	66 00 26.18 44 49 14.6 69 10 25.9	7 -1 .5			66 0 23 44 49 12 69 10 23	.7		
78		180 00 06.76	5	5.2	+1.56	180 00 00			
	D	aesauncegood	a from \d		-	etta,		34849.9 74777.4	

ACCOUNT OF TRIGONOMETRICAL

	Mullapunnabetta from Daesauneegoods 134849.9
No.	TRIANGLES. Obed. Angles.
	Mullapunnabetta, 49° 25′ 48″27 —1″.25 — 49° 25′ 47″ 59 54 6.00 —2 .37 —2 .37 —40° 40° 40° 40° 40° 40° 40° 40° 40° 40°
79	180 00 00
	Hannabetta from Daesauneegoo la,
	Mullapunnabetta from Hannabetta 206822.5
i	Mullapunnabetta, 29 33 22.39 0.02 29 33 22.4 130 52 24.2 119 34 16.25 2.89 119 34 13,4
80	180 00 00
	Koondoor Hill from Hannabetta, 117355.7
*	Mullapunnabetta from Daesauneegooda 1,34849.9
	Mullapupnabetta, 78 59 10.66 —1 .6 78 50 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
81	180 0 6.76 3".8 +2".96 180 00 00
	Koondoor Hill from
	Daesauneegooda,

TRIANGLES-CONTINUED.

	Daesanne	egooda from	Hanne	bette	1 1571	80.4					
No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles fo					
82	Dacsaunecgooda, Hannabetta, Koondoor Hill,	49/50 10/.07 71/50 15.00 65/36/45.08	-1 .5 -1 .4	1 1	 —3'65	42° 50 40′. 71 82° 34. 65° 36° 44.	7				
	Koondoor Hill from Dacsauneegoods,										
	Hann	abelta from	Kaondo	orbet	la 117	855.7	•				
	Hannahetta,	1'6 19 17.57 21 36 31	9 96 + 0.85		·	136 19 13. .21 36 31. 22 4 11.	9				
83				1		180 00 00					
	! !	Balroyadre	ng from ⊰		abetta, eloorbet	 ln,	115016				
	Muliaj	nınnabetta fi	om Ko	mdoo	rbetta	122081.4					
	Mullepunnabetta, Koondoorbetta, Koondhully Hill,	15 58 38.2 6 143 96 55.38 20 24 30.64	-4.22		i,	15 58·99 149 86 50 20 24 91					
84		180 00 01.28		1.65	+2.63	180 00 00					
		Koʻondhull	y from {		•	etta,					

THE side Mullapunnabetta from Koondoorbetta is the mean distance had from the 80th and 81st triangle.

ACCOUNT OF TRIGONOMETRICAL

	Koondoor	betta from K	Coondhi	illy I	Hill 96	366.3				
No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.			
	Koondoorbetta, Koondhully Hill, Balroyndroog,		_1".7			75° 12′ 15″.67 78 48 9.73 25 59 34.6				
85						180 00 00				
	Balroyndroog from Koondoorbetta,									
	Koondoorbe	etta from M								
	Koondoorbetta, Mullapunnabetta, Balroyadroog,	141 10 47.25	—9.4 1			141 10 37.8 24 59 21.75 13 50 00.45				
86						180 00 00.00				
	Balroyndroog from Koondoorbetta,									
	Mullapun	mabetta froi	n Koon	dhull	y Hil	207682.8	-1			
0.7	Mullapunnabetta, Koondhully, Balroyndroog,	99 12 22.2	-2 .1 -6 .1			40 57 59.5 99 12 16.2 59 49 44.3				
87		<u> </u>	1			180 00 00.00	1			
		Balroyndro	og from	₹ .		abetta,	320075 212584.5			

TRIANGLES-CONTINUED.

Vo.	TRIANGLES.	Obsd. Angles.	Differ ence.	Sphenal Filles.	Liror.	Angles for (alculation.	Distanco in sect.
89	Koondhully Hill, Bilioyndroog, Bullamully,	\$1• 12 11".66 57 46 30.42	—3″.5 —2 .4			11 01' 23'.8 51 12 8 .2 57 46 28	
	В	ullamully from	₁ - ₹	ndhull ovndre		,	248343.2 164944.6

THE side Koondhully hill from Balroyndroog is the mean distance found in the 85th and 87th triangle.

	Balr	oyndro	og fre	om .	Bullamı	ully 1649	44.	G	
89	Balroyndroog,Bullamully,Ungargooda,	 59 51 91 21	19.97 00.75	0 1	.6	59	54 20	41.5 19.2 59.3	-
		Ungar	gooda i	from	₹	ndroog,			142749.3 79345.5

THE supplemental chord angle at Bullamully, between Meejar hill and Ungargooda, corrected, is subtracted from the observed angle between Balroyndroog and Meejar hill, to get the angle at Bullamully, between Balroyndroog and Ungargooda, as an observed one.

TRIANGLES-CONTINUED.

7	Bullam	ully from U	Ingarg	ooda :	7934	5 .5	
No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	. Error.	Angles for Calculation.	Distance in feet.
	Bullamully,	 126 [.] 11′27″.88 37 46 8 .19	-0".7 +0 .2			16° 02′ 24″.8 126 11 27.2 37 46 08	
90						180 00 00 00	
	Meejar Station from Bullamully,						

At Meajar hill, the supplemental chord angle between Booggargooda and Ungargooda, corrected as an observed one, and subtracted from the observed angle between Booggargooda and Bullamully, gives the angle between Bullamully and Ungargooda as an observed angle.

	Bullamı	illy from	Meejar S	tatio	n 104.	550.9	2	
91	Bullamully,	31 37 32.8 49 07 53.0 96 14 31.3 179 59 57.9	57 -0.27 57 -0.58	1.11	3.2	49 96	37 33.75 07 54.5 14 31.75	
	Kudapoonabetta from ₹							795 86 59768
ر. د	Bullanully,	7 46 56. 48 38 45. 123 34 21.	$\begin{vmatrix} +0.17 \\ 12 \\ -0.33 \end{vmatrix}$			48. 1 23	16 55.5 38 44.7 34 19.8	
1	Ť	180 00 05.	04	0.18	+2.86	180	00.00	
Kunnoor Station from Kudapoonab								71655.7 12925.8

SECTION III.

Southern series of triangles, commencing from Mullapunnabetta and Mysoor hill, and continued to the Malabar coast, terminating with the distance from Bullamully to Kunnoor station, which is also brought out by the northern series.

VI. ANGLES. At Mysoor Hill

Between	And
iwierring riag,	Mullapuranabetta, 177° 47′ 26″ 25.45
	27. 89
	28.5
	27 > 26".50
	27. 5
	2).25 2).5
	23.5
	Bettatipoor Hill,136 06 58.65
	57.42
	90.23 (
75.0 1 200	55.73
Referring Flag,	Mullapunnabetta, 177 47 26.50
	Bettatipoor Hill,156 06 57.01
Mullapunnabetta,	Bettatipoor Hill, 41 40 29.49

At Mullapunnabetta.

Referring Flag,	Mysoor Hill,	37 !	19 12 10.75 12.75 12.25 14 10.5 12 12.25 14 15.25 14.5 12.75	12.58
	Bettatipoor Hill,	12 \$		39.97

At Mullapunnabetta, continued.

Between	_ And	
Referring Flag,	Soobramance,59°05′05″.25	1
	07.5 5.75	> 06'.
	6.75 4.75	(00,
Deferring Flor	M	l
Meterring rag,	Mysoor Hill, 37 59 12.58 Bettatipoor Hill, 12 26 39.97	
Mysoor Hill,	Bettatipoor Hill, 50 25 52.55	
Referring Flag,	Soobramanee, 59 5 06	
6 6,	BettatipoorHill, 12 26 39.97	
Bettatipoor Hill,	Soobramanee,46 38 26.03	
$\mathcal{A}t$	t Bettatipoor $oldsymbol{H}$ ıll.	
Muliapunnabetta,	Mysoor Hill, 87 53 46	40.07
	50.75 49.25	48.67
	Soobramanee, 83 35 12.75 11.5	1
	9 11.55	11.26
	11.5)
Soobramance,	Taddiandamole, 51 37 49.75 52.25	
	54.75 49.5	5.9
	53.7 5	
	•	
•	At Taddiandamole.	
Betatipoor Hill,	Soobramanec, 54 50 32.25	l
	30.5 32.75	
	32.5 29.75	31.14
	32	
Soobumanee.	28.25 Mount Delli, 124 57 23	j I
•	23.5 19.25	22.1
	22.5 21.75	
	£7.103	1

At Mount Dilli.

Between	And
Kunduddakamully,	Taddiandamole, 60° 21′ 24″.75 84.5 28″.48
	Munjujimpuddy, 19 17 8.25 0.5 13.25 9.33
-	At Kunduddahamully.
Goompay Hill,	Annantapoor Hill, 15 56 19 10.25 11.5 9 10.69
Dackul,	Annautanggor Hill, 27 41 13 13.5 43.25
Goompay Hill	Ballanandgoods, 26 14 58.25 41.25 36 40.25 41
	Taddiandamole, 151 2 30 27
Munjuimpuddy,	Backul, 25 44 28.25 29.75
Goompay Hill, Taddiandamole,	Annantapoor, 15 56 10.69 Goompay Hill, 151 2 27
Annantapoor,	Taddiandamole, 166 58 37.69 Backul, 37 41 43.25
Backul,	Taddiandamole, 155 19 39.06
Annantapoor	Backul, 37 41 43.25 Annantapoor, 15 56 10.69
Backul,	Goompay, 53 37 53.94
Taddiandamole.	Backul, 155 19 29.06, Munimpouddy, 25 44 29.75
Munjuimpuddy,	Taddiandamole, 129 35 9.31 •
1	***

At Baehul.

Between	And	
Munjuimpuddy,	- •	.75 } 57'.67
	Kunduddakamully, 32 31 59	75 61.37
Goompay Hill,	63 56 Annantapoor,	.75 > 59.58
Goompay Hill,	-Kunduddakamully, 92 36 56	.25
	55 55	.25 .25 .25
Munjuimpuddy,	. Mount Dilli,	.67 .87
Mount Dilli,	Kunduddakamully, 65 09 59	.01
$\mathcal{A}t$ N	Munjuimpuddy Hill.	
Kunduddakamully,	Munjuimpuddy Hill. Mount Dilli, 100 26 09 10 9 8	.5 .25 .5
4.	77'77	•
	Annantapoor Hill.	
Goompay Hill,		.5 .25 .25 14.67
	4. 6	Λn
	It Goompay Hill.	
Ballanandgooda;	14	.5 .25 14.94
	4	.75
	1	.5 4.57
	Kunnoor Station, 93 6 48.	.5 48.25
Ballanandgoodn,,	Bullamully,	.94
Bullamully,	Kunnoor Station, 57 57 33	.91

At Bullamully.

Between	And	
Ballanandgooda,	Goompay Hill, 79° 17′ 59″ 43.13 44:37	
- \ / //	43.13	42' .17
	Balroyndroog, 80 53 15.75	
		19.19
	21.75 17.25	
Balroyndroog,	Kumoor Station, 118 21 13.5 Ballanandgooda, 80 53 19.19	
.maroynaroog,	Danananagooda, 80 93 19.19	
Ballanandgooda,	Kunnoor Station, 160 45 27.31	
Ballanandgooda,	Goompay Hill, 79 17 42.17	
Goompay Hill,	Kunnoor Station, 81 27 45.14	

VII. TRIANGLES.

	Mullapur	nnabetta fro	m Mys	oor H	ill 269	9477.5		
.Vo.`	TRIANGLES.	Obid. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.	
93	Mullapunnabetta, Mysoor Hill, Bettatipoor Hill,	50°25′52″.55 41 40 29.49 87 53 48.67	-2 .5			50° 25′ 40″.6 41 40 26.6 87 53 43.8	,	
	180 00 10.71 8".8 +1"91 180 00 00 1 179294.4 Béttatipoor Hill from Mysoor Hill,							
	Mullapun	nabetta fron	n Betta	tipoo	r Hill	179294.4		
	Mullapunnabetta, Bettatipoor Hill, Soobramance,	46 38 26.03 83 35 11.26				46 38 24 83 35 8 49 46 28		
94					1	80 00 08		
		Soobramane	e from 🖁		punnabe ipoor Hi	tta,	253359.7 1 707 54	

TRIANGLES-CONTINCIP.

	Bettatipoor Hill f	rom Soal	ramane	e 1707	734	
Nυ	TRIANGLES. Obsd. Angl	ingrene.	Vineral Inches	Error.	Angles for Calculation	Distance in feet.
	Bett ttipoor Hill, 51° 37′ 52 Soobtamance, 51° 50° 51.	1	1 1		51° 97 50′. 73 91 40 . 54 50 29 .	7
0,				1	80 00 00.0	0
	'Taddiandan	pole from	So brama	mee Hil		
	Soobramanee Hill	from Tad	diandai — :-	nole 10 	39730.4	
١.,	Soobramance Hill, 71:.7-12.			71	11 S6.6 37 10.5 11 13.1,	, ,
, ,,				150	00 00	
	Kunduddakam	illy from 🖁			·	190004.3 1 49 160.2

The supplemental chord angle at Taddiandamole, between Kunduddaka-mully and Mount Dilli, reduced as an observed one, is subtracted from the angle Soobramanee hill and Mount Dilli, as observed at Taddiandamole, to give the angle Lundudakamully and Soobramanee hill. The station at Kunduddakamully could not be seen when the angles were taken at Taddiandamole.

	Taddiand	amole from	Kundudda	ikamully 14	916	0.9	
97	Taddiandamole, Kunduddakamully, Mount Dilli,	69 18 26.71 60 21 28.08	1.61 1.44	6		8.26 25.10 26.61	
1	. !				0 00	00	<u> </u>
		Mount Dill	i from ?	ddiandamole, mduddakamu			160548.9 L32113

THE supplemental chord angle at Kunduddakamully, between Mount Dilli and Munjuimpuddy, made as an observed angle by applying the correction, and subtracted from the observed angle between Munjuimpuddy and Taddiandamole, gives the angle Mount Dilli and Taddiandamole as an observed angle.

TRIANGLES -CONTINUED.

	Kundudda	skamully fro	m Mo	unt D	illi	132113	
No.	TRIANGLES.	Obsd. Angles.	Difference.	Spherical Excess.	Error.	Angles for Calculation.	Distance in feet.
١.	Kunduddakamully, Mount Dilli,		1			86°01′11″.95 28 48 50.21 65 09 58.44	
98						180 00 00 00	
		Backul fre	m ₹			illy,	7016 2 145 223 . 1

In this triangle the same supplemental chord angle between Mount Dilli and Munjuimpuddy, corrected, is added to the observed angle at Kundudda-kamully, between Backul and Munjuimpuddy, to get the observed angle between Mount Dilli and Backul.

	Kundu	ddakamully from Bael	ul 70162	
99	Kunduddakamully, Backul, Goompay Hill,	53 37 53.91 —0 .4 92 36 55.58 —0 .9	53 37 53 .54 92 36 54.68 33 45 11.78	
	Go	ompay Hill from ?	• • • • • • • • • • • • • • • • • • • •	196145.9

ACCOUNT OF TRIGONOMETRICAL'

-	- 19	
	Kunduddakamully from Goompay Hill 126145.9	~ i
No	TRIANGLES. Obsd. Angles.	
10	Cunduddakamully, 26° 14′ 39″.35 -0 .6 26° 14′ 38″.73 Goompay Hill, 8J 41 30 .21 -0 .7 83 44 29.5 Ballanandgooda, 70 00 51.73	}
10	180 00 00	
	Ballanandgooda from Kunduddakamully,	133429.4 59355.8
	Goompay Hill from Ballanandgooda 59355.8	٠٠
	Goompay Hill, 25 09 14.94 —0.12 35 09 14.8 Ballanandgooda, 79 17 42.71 —0.16 35 09 14.8 65 33 02.7 79 17 42.5	
10	180 00 00.00	, .
	Bullamully from Ballanandgooda,	
	Goompay Hill from Bullamully 54990.2	
02	Goompay Hill, 57 57 33.31 —0 .28 57 57 53 81 27 45.14 —0 .39 81 27 42.25	
UZ	1 1 180 00 00.00	
	Kunnoor Station from	83600.1
	(Bullamully,	71659.4

THE same side Bullamully from Kunnoor hill brought out down from the northern series is 71655; feet: therefore the mean will be 71657.55 feet. Hence, as the side Bullamully from Kunnoor hill, brought down from the northern series, is to the mean, so is the side Meejar hill and Kudapop nabetta, brought down by the northern series, to 59764.6 feet, as derived from the mean of both series.

TRIANGLES-CONTINUED.

	Meeja	r Hill from	Kudap	oonah	etta	59764.6	
No.	TRIANGLES,	Obsd. Angles,	Difference.	Spherical Excess.	Lrror.	Angles for Calculation.	Distance in fect.
,	Mœjar Hill, Kudapoonbetta, KoolieDegooda,	57 *55′ 19 ′.94 58 24 56.62	—0″ 1 <u>9</u> —0 .17			37° 55′ 19′.8 58 24 56 .5 83 39 43 .7	
103						180 00 00.00	
,	Ко	oliebogooda fro	m Z	•		а,	51224.7 36956.5

.

ACCOUNT OF TRISOHOME WRICAL

SECONDARY TRIANGLES.

-	Kudapoo	nabetta from	Koolizoogooda 36956.5
No.	TRIANGLES.	Obed. Angles.	Distances from the intersected Objects in Feet.
	Kudapoonabetta, Kooliebogooda, Eedgah Station,	66°11′32′ 25 28 59 68 19 19	Ecdgah Station,
	Eedgah	Station from	Kooliebogooda 59680.7
	Kooliebogooda, Station on the Beach, .	66 09 43 14 50 24 99 19 53	Station on the Beach,
	Bulla	mully from C	Goompay Hill 54990.2
	Bullamulty,	69 16 59	Mangalore,
			innoor Station 71659.4
	Ballamully,	158 37 57	Mangalore, 91761.4
-	Mount 1	Dilli from Kı	induddakamully 1321#8
• • • • • • • • • • • • • • • • • • • 	Mount Dilli, Kunduddakamully, Cannanore,	192 10 39 18 46 24 29 02 57	Camanore, 87563. 201632.
			Mount Dilli 160548.9
	l Taddiandamole,	31 59 09 71 49 11. 76 11 40	Cannanare,
			m Cannanore 157072
	Taddiandamole, Cannanore,	16 51 05 98 16 45 64 52 10	} Station in Redoubt,
	Taddianda	mole from St	ation in Redoubt 171686.4
	Taddiandamole, Station in Redoubt, Tellicherry	1 29 26 132 52 33 46 38 01	Tellicherry,

SECTION IV.

Latitude of Dodagoontah Station, with the position of its Meridian.

Dodagoontah station is selected as the point of departure in preference to the observatory at *Madras*, as it is nearly in the middle of the *Peninsula*, and its meridian is intended to be carried down to *Cape Comorin*. It has already been extended below the latitude of 11°, and the series of triangles from which it is deduced, being to form the foundation of all the branches which may hereafter be carried to each coast, I have considered it as the properest meridian to which all latitudes and relative longitudes should be referred.

8. Zenith distances of stars observed at *Dodagoontah*, with their corrections for precession, nutation, aberration, and the semi-annual solar equation, back to the beginning of the year 1805, for determining the latitude of that station.

Observations at Dodagoontah. * SERPENTIS.

REAREST	With T	ON	THE	LINB	*	85'	ïg.
---------	--------	----	-----	------	---	-----	-----

1805	Ohrd. Zenith Distances.	Correc- tion.	Correct Zinith	Thermometers.		
Month.	Distances.	.8.≅	Distances.	Upper.	Lower.	
July 10. E. 12. W. 15. W. 15. W. 19. E. 27. W. 29. E. 31. W. 1806 June 19. E.	5° 57' 04' .49 5 56 59 .38 5 57 07 .74 5 56 54 .73 5 57 9 .64 5 56 59 .74 5 56 59 .41 5 56 59 .75 5 56 16 .76 5 56 10 .88	7" .14 .93 .64 .96 .96 .99 .99 .99 .99 .99 .99 .99 .99	5 56 40 .55 5 56 47 .45 5 56 87 .48	70 73 79,5 78 70 70 70 70 75 75 75	70° 73 79 78 76 76 775 775 779 78	
20. W. 22. W. 23. E.	5 56 10 .88 5 56 67 .58 5 56 13 .21	18 .95 18 .70 18 .57	5 56 54 .68 5 56 54 .64 Meau	79 70 73	78 78 73 75.1	

HERCULIS.

NEAREST POINT ON THE LIMB 1º 35 N.

1805	ان			Zen		Correc	tion.	Co	rreci	Zen	ith	Therm	omelers.
Month.	Face	Distance.				3	æ	Distance.				Upper.	Lower
July 12.	E.	1.	37′	19"	.83	0	. 39	1•	37′	20"	.22	68•	69•
16,	E.	1	37	20	.53	0	.27	1	37	20	.26	72.5	73
19.		ī	37	57	.14	0	.73	1	37		.41	75	76
26.	W.	1	37	35	.88	2	.03	1	37	.33	.85	74	71
29.	16.	1	37	22	.55	2	.16	1	37	20	.39	76	76
. 31.	E.	1	37	23	.16	2	.42	1	37	20	.74	69	68.5
Augin	W.	1	37	35	.26	2	.66	1	37	_	.60	77.5	77.5
7.		1	37	24	.76	3	.26	1	37		.50	71.5	72
8	W.	J	37	36	.89	3	.37	1	37		.52	71.5	71
9.		1	37	2 5	.56	18	.48	1	37		.08	71	71
10		1	37	36	.79	3	.58	1	37		.21	73	73
15		1	37	24	.76	3	.78	1	37		.98	74	74
1 1 16	W.	1	37 37	37 27	.87 .06	4	.08	1	37 37		.89 .89	74 71.5	74 71
										Mear	١,	73	73.5

« OPHIUCHI.

NEAREST POINT ON THE LIMB O' 15' S.

									_		
July 12. E.	0	17	14 .49	0+	29	0	17	14	.18	1	70
13. W.	ŏ	17	03 .10		46	ŏ	17	03	.96	71	4178 ·
15. E.	Õ	17	13 .54		77	Ŏ	17	14	.31.	71	71.5
19. E.	0	17	11 .60	1 .4	43	0	17	13	.03	75	75
22. W.	0	16	59 .10	3. 5	89	0	17	00	.03 .99	74	74
28. E.	0	17	10 .74		76	0	17	13	.50	74	74
29. W.	0	16	57 .63		89	0	17	00	.52	76.5	76
30. E.	0	17	09 .24		02	0	17	12	.26	77	77
31. W.	0	16	58 .93	3 .	15	0	17	02	.08	69.5	69
August 7 E.	0	17	08 .51		02	0	17	12	.53	72	72
8.7	0	16	57 .21		14	0	17	01	.38	71	71
9. F.E.	0	17	90.09		25	0	17	13	.33	71	71
10. W .	0	16	57 .76		36	0	17	02	. 12	73	73
12. E.	0	17	07 .54		58	0	17	12	. 12	73	73
14. W.	0	16	55 .13	4 .	78	Q.	16	59	.91	74	74
17. E.	0	17	8 .74	15.	07	₹.	17	13	.81	72.5	72.5
	1			T				Mea	n,	72.7	72.8

AQUILÆ.

NEAREST POINT ON THE LIMB 2º 50' S.

1805	Observed Zenth	Correc- tion.	Correct Zenith	Thermometer.
Month.	Distance.	Co	Distance.	Upper. Lower
July 12. E. 13. W. 15. E 16. W. 19. E 22. W. 31. E. August 7. W. 8. E. 9. W. 10. E. 12. W.	2° 50′ 55″ .13 2 50 42 .80 2 50 51 .50 2 50 42 .50 2 50 55 .50 2 50 55 .50 2 50 50 .40 2 50 39 .40 2 50 46 .13 2 50 40 .75 2 50 38 .33 2 50 48 .63	+ 7" .96 8 ,17 8 .57 8 .77 9 .36 9 .94 11 .58 12 .76 12 .92 13 .08 13 .21 13 .55 13 .70	2° 51′ 03′ .09 2° 50′ 50′ .97 2° 51′ 0 .07 2° 50′ 51′ .27 2° 51′ 4 .86 2° 50′ 47′ .34 2° 51′ 1 .98 2° 50′ 52′ .16 2° 50′ 59′ .05 2° 50′ 59′ .05 2° 50′ 59′ .83 2° 51′ 2 .74 2° 50′ 51′ .88 2° 51′ 2 .53	67°.5 68° 70 70 69 70 71 74 73 73 72.5 69 69 70 70 69.5 70 70 70 73 72 70 70 73 72 70
17. W. 20. E. 30. W.	2 50 28 .30 2 50 49 .00 2 50 38 .20	14 .27 14 .70 15 .91	2 50 52 .57 2 51 3 .70 2 50 54 .11	72 72 70 70 72 72
	-,,,	<u> </u>	Mean,	70.6 70.6

ATAIR.

NEAREST POINT ON THE LIMB 4 35 S.

					1	+	l		·········		i	1
July 12. E.	4	37	55	.62	8	.49	4	38	04	.11	67.5	68
13. W.	4		42	.39	8	-68	4	37	51	.07	70	70
15. E.	4		56	.47	9	.07	4	38	05	.54	69	70
16. W.	4		43	.89	9	.26	4	37	52	.65	70	71
19. E.	4		56	.14	9	-83	4	38	5	.97	73	72.5
22. W.	4		42	.01	110	.41	4	87	52	.42	73	73
29. E.	4	_	53	.89	111	.65	. 4	58	5	.54	74.5	74.5
80. W.	4		40	.39	11	.82	4	37	52	.21	76	76
31. E.	4	_	51	.84	11	.99	4	38	3	.83	69	69
August 7. W.	4	37	40	.96	13	:13	4	37	51	.09	71	71
8. E.	4	37	48	.37	13	28	4	58	01	.66	69.5	70
9. W.	4	57	41	.89	13	.41	4	37	55	.33	70	70
10. E.	. 4	37	48	.34	13	.59	4	38	1	.93	70	70
12. W.	4	37	39	.76	13	.89	4	37	53	.65 •		72.
13. E.	4	37	48	.17	14	.04	4	38	2	.21	70	70
17. W.	4		41	.86	14	.60	4	37	56	.45	72 70	72
20 E.	4	-	49	.37	14	.99	4	. 38	4	.36		70
30.W.	1 4	37	37	.89	16	A6	4	37	54	.05	772 .	72
									Me	ш,	71.1	71.

s AQUILÆ.

TRABEST POINT ON THE LINE 7º 5' S.

1806	ice.		d Zenith	orrec-	Con	fect	 Zenili	ł.	Therm	ometer.
Month.	Fa	Dist	ance.	2.3		Dist	ance.		Upper.	Lower.
August 25. 26. 27.	W.	7° 03' 7 03 7 03	38" .62 29 .87 40 .87	+ 26".27 26 .37 26 .47		4' 3 4	4" .8 56 .9		76° 72 71	76° 73 71
					<u>'</u>		Mean	,	73	73.3

ARCTURUS.

NRAREST POINT ON THE LINE 7 10 N.

1805 July 11. W. 19. E. 16. W. 22. E. 26. W.	7 7 7 7	12 11 12 11 12	12 58 11 59 13	.43 .13 .36 .98 .26	7 7 7 6 6	.50 .36 .16 .85	7 7 7 7 7	12 12 12 12 12	19 65 18 6 19	.93 .49 .59 .83	74.5 74 77 80 84	74.5 74.5 77 79.5 83
	-								Me	an,	77.9	77.7

MARKAB.

NEAREST POINT ON THE LINE 1 10 N.

	- 1					1 .	- 1					ł	
August 19. E	. 1	1	9	50	.40	22	.11	I	9	28	.28	68	68
14. V	v. I	1	10	5	.30	22	.32	I	9	42	.98	69	70
17. E		ī	9	55	.00	22	.93	I	9	32	.07	69	70
21. V		Ĩ	10	5	.90	23	.72	I	9	41	.58	68	69
23. W	7.	ĩ	10	06	.00	21	.09	I	9	41	.91	.72	72
28. W		1	10	4	.40	21	.98	I	9	39	.42	68	69
29. E.		ĩ	10	00	.00	25	.18	Î	9	34	.82	72	72
90. W		ĺ	ĪŌ	6	.50	25	.35	I	9	41	.15	71	7I
	<u> </u>									Me		69.6	70.1

PEGASI.

NEAREST POINT ON THE LINB I 5 N.

August 22. E. 23. W. 27. E. 30. W.	I I I I	,6 6 6 6	21 31 23 35		21 21 21 21	.04 .42 .95	I I I	5 6 5 6	57 07 58 09	. 22 .21 .56 .69	68 70 68 68	69 71 69 70
	Mean,								68.5	69.8		

Means of the Zenith Distances taken on the right and left Arcs, corrected for refraction, equation of the sectorial tube, and the mean runs of the Micrometer.

Previous to this arrangement of the zenith distances it may be proper to say a few words on the different corrections here mentioned.

The refraction is had from the tables of mean refraction, and no notice taken of the barometer or thermometer, or of the heights of the stations above the level of the sea, considering it doubtful what corrections to apply until observations are made, and tables of refraction constructed, for this climate, and for different elevations.

The corrections for the micrometer were determined by taking the runs between every dot on the arc when the mean temperature was 74°, it having been discovered upon more minute attention, that one degree on the limb was more than 3600 divisions marked seconds on the micrometer; and the average of all the results gave 3604. Therefore one minute counted by that scale required a deduction of 0'.066 to give its true measure from the nearest dot. In all these observations two thermometers were used, one opposite the upper axis, the other opposite the arc, and the experiments for astertaining the runs were made when the thermometers stood at the same degree:

This error in the scale of the micrometer has doubtless arisen in a great measure from the unequal expansion of the sectorial tube and the frame which carries it, whereby the point of the screw does not coincide with the centre of the steel plate against which it presses, and in consequence causes a greater equation than what would arise simply from

the expansion of the arc while the point rested on the centre of the plate. Exclusive of the above correction, I have endeavoured to make some allowance for the variation of temperature from 74°, but I have found it too trifling to be noticed.

The correction for the sectorial tube, is a small equation which arises when the temperature above is different from that below; on which account the expansion and contraction of the tube are not in the same ratio with those of the arc. This irregularity, like the last, is in general very inconsiderable, though the correction for it is taken into account.

ZENITH DISTANCES at Dodagoontah, arranged and finally corrected.

* SERPENTIS.

1805		Left Arc.		180.	5		D:-	2.4	4	Man	Mean.					
Month.	LÇ		ıc.	Mon	Month. Right Ar		27C.	Mican.								
July 10.	3° 56' 5 57	1	.10	July	12. 18. 24.	5	56	52 48 53	.37	Mean,		' 56' +	53′ 5	.82 .82		
19 26. 29,	5 57 5 57 5 56	5 0 58	.98 .98		<i>2</i> 7. 31.	5	56 56 56	46 47	.42 :55 .45	Zenith Distances,	5	56	59	.64		
1806 } 19. June } 23.	5 57 5 56		.68 .64	1806 } June \$			56 56		.93 .68							
Mean,	5 56	57	.67	Mean	n,	5	56	49	.97							

« HERCULIS.

1805	Tofa Aug	1805	Diale due	Mean.
Month.	Left Arc.	Month.	Right Arc.	In car.
July 19. 28. August 2. 8. 10. 14.	1· 37 ² 36" .41 1 37 33 .85 1 37 32 .60 1 37 33 .52 1 37 33 .21 1 37 33 .89	July 12. 16. 29. 31. August 7. 9. 12. 16.	1° 37′ 20″ .92 1 37 20 .20 1 37 20 .39 1 37 20 .71 1 37 21 .50 1 37 22 .08 1 37 20 .98 1 37 22 .89	Mean, 1° 37° 27" .52 Refraction &c. + 1 .47 Zenith Distance, 1 37° 28 .99
Mcan,	1 37 33 .91	Mean,	1 37 21 .13	

. OPHIUCHI.

July 12. 15. 19. 28. 30. August 7. 9. 12.	0 17 13 ,5 0 17 12 .26 0 17 12 .53 0 17 13 .33 0 17 12 .12	July 13. 22. 29. 31. August · 8. 10. 14.	0 17 0 17 0 17 0 17	0 .99 0 .52 2 .08 1 .38 2 .12	Mean, 0 17 7 .40 Refraction &c + 0 .31 Zenith Distance, 0 17 7 .71
Mean,	0 17 19 .90	Mean,	0 17	1 .51	

, AQUILÆ.

July 12. 15. 19. 31. August 8. 10. 13. 20.	2 2 2 2 2 2	51 51 51 50 51 51	0 4 1 59 2	.09 .07 .86 .98 .05 .74 .53	July 13. 16. 22. August 7. 9 12. 17.	22292	50 50 50 50 50 50	51 47 52 53 51 52	.27 .31	
Mean,	2	51	2	.23	Mean,			51	.77	

ATAIR.

1805 .	T . A	4		1805	1805 . Right Arc.				1	2.7					
Month.	Left	AT	r.	Month.			Mean.								
July 12. 15. 19. 29. 31. August 8.	4° 38′ 4 58 4 58 4 58 4 58 4 58 4 58	5 5 5 3	.11 .54 .97 .54 .83	J 2 S August	6. 2. 0. 7.	44444	37' 37 37 37 37 37	52 52 52 54 55	.07 .65 .42 .21 .09 .33	Mean, Refraction	ո &շ	_	57′ + 38	58" 4 3	.73 .61
10. 13. 20. Mean,	4 38 4 38 4 38 4 38	2 4	.93 .21 .36	1	0.	4	37 37 37	53 56 54 53	.65 .45 .05						

BAQUILÆ.

1806 August 25. 27.	7 7	4	4 7	.89 .34	1806 August 2 6.	7	3	56	.24	Mean,	4+	1 7	.18 .18
Mean,	7	4	6	.11	Mean,	7	3	56	.24	Zenith Distance,7	4	8	.36

MARKAB.

1805 August 14. 21. 23. 28. 30.	. 1 1 1	9 9 9	41 41 39	.98 .58 .91 .42 .15]	9	52	.28 .07 .82	Mean, 1 9 36 .57 Refraction &c + 1.19 Zenith Distance, 1 9 37.76
Mean,	1	9	.41	.41	Mean,	1	9	31	.73	

v PEGASI.

August 23. 50.]	6 6	7 9	.21 .69	August 22.	\.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5 ! 5 !	57 58	.22 .56	Mean, Refraction &c.	1	6	3 .17 1 .06
Mean,	1	6	8	.45	Mcan,	1	5 !	57	.89	Zenith Distance	1	6	4 .23

A	D		~	TT	73	U	C
м	ĸ	L		u	ĸ	u	Э.

	7° 12′ 19′ .93 7 12 18 .52 7 12 19 .95	July 13, 22.	•	Mean, 7° 12' 12" .81 Refraction &c. + 7 .03
Mean,	7 12 19 .47	Menn,	7 12 6 .16	Zenith Distance, 7 10 19 .84

The Latitude of Dodagoontah Station, deduced from the foregoing Stars.

671176	I rom the begin	ming of 1805.	Latitude.		
STARS.	Mean Declination.	Correct Z. Distance.			
Arcturus,	14 37 30 .96 12 42 50 .91 10 8 58 .34 8 21 53 .53 5 55 52 .71 14 9 40 .99	7° 12 19'.84 N. 5 56 59 .64 N. 1 37 28 .99 N. 0 17 7 .71 S. 2 50 59 .78 S. 4 38 3 .94 S. 7 4 8 .73 S. 1 9 37 .76 N. 1 6 4 .23 N. Mean,	12°)0 50 .39 N. 59 .97 61 .97 58 .62 58 .12 56 .87 61 .44 62 .53 60 .47		

This is one of the stations alluded to in the note p. 291, where the plummet is supposed to have been drawn to the northward; in which case the latitude here deduced must be something in defect.

9. Pole-star observations at *Dodagoontah* Station, reduced for determining the position of the Meridian.

1805	Apparent Polar	Latitude.	· Azimuths.	Angle between	Angle between
Month.	Distance.	Launua.	Azimutas.	Lamp.	the N. Pole and Lamp.
July 19. 92. August 8. 19. 17. 18. 19. 23. 26. 27.	1 43 58 . 20 1 43 57 . 57 1 43 54 . 07 1 43 53 . 05 1 43 51 . 70 1 43 51 . 16 1 43 50 . 04 1 43 49 . 09 1 43 48 . 83 en the N. Pole an	12° 59′ 59″ .91	1° 46′ 42′ .16 1 46 41 .70 1 46 38 .10 1 46 37 .06 1 46 35 .67 1 46 35 .40 1 46 35 .10 1 46 33 .97 1 46 32 .73	1 31 53" .00 1 31 56 .25 1 31 51 .25 1 31 48 .50 1 31 46 .25 1 31 47 .50 1 31 45 .50 1 31 45 .50 1 31 43 .50 1 31 44 .50	0° 14 49′ .16 0 14 45 .45 .6 0 14 46 .85° 0 14 48 .56 0 14 49 .42 0 14 47 .90 0 14 49 .60 0 14 48 .47 0 14 49 .49 0 14 48 .23° 0 14 48 .31
Angle between	on the Referring	Flag and Sav	endroog,	.,,	104 4 29 .68
Angle betwe	en the N. Pole an	d Savendroo	g Station,	**********	103 49 41 .37

SECTION V.

Length of the Perpendicular. Degree, and the Latitudes and relative Longitudes of all the great. Stations of Observation, and other places on the two Coasts.

10. THE measurement of an arc perpendicular to the meridian, and the length of a degree in latitude 12° 55′ 10″.

For determining the latitude of Savendroog, we have at Dodagoontah station, the bearing of Savendroog station with the meridian 76° 10′ 18″.63 S. W! and the distance between these two stations = 121933.2 feet. These will give the westing of Savendroog = 118399.2 feet, and the southing of the point on the meridian of Dodagoontah, where the perpendicular let fall from Savendroog, will cut the said meridian = 29143.3 feet, which is equal to an arc of 4′ 48′.88, and this deducted from the latitude of Dodagoontah gives 12 55′ 11″.03. The westing will give an arc perpendicular to the meridian 19′ 29″.04, with which, and the colatitude of the above point, the latitude of Savendroog will be had 12° 55′ 10″.24.

Note. The meridional degree is taken at 60498 fathoms, being the computed degree for latitude 12° 55' 12", as deduced from the measured degrees for latitude 11° 59' 55" and latitude 52° 02' 30".

Pole-Star Observations at Savendroog Station, reduced for determining the position of the Meridian.

1804 Month.	Apparent Polar Distance.	Latitude.	Asimuths.	Angle between the Pole-star and Referring lamp.	He N.	e between Pole and ring lamp.	
March 6. 7. 8. 9. 10. 13. 14. 15. 16, 21. Angle betwee Angle between the state of t	1 43 59 .91	19 55 10 24 Refe	1° 46 39".72 1 46 40 .3 1 46 40 .57 1 46 40 .86 1 46 40 .86 1 46 42 .03 1 46 42 .31 1 46 43 .11 rring Lamp, Mullapunnabets	2 29 01 .12	0 49 0 48 0 48 0 48 0 48 0 48 0 48 0 42 0 42 0 42 0 42 0 42	17 .85 13 .7 12 .93 16 .80 14 .27 16 .72 16 .44 15 .63 18 .02	G.
Angle betwe	en the North Pol	e and Mull	apunnabetta,	*****	89,57	45:.27 V	K,
Angle between Angle between	en the North Pol en the Referring	e and Refe Lamp and	rring Lamp, Yerracondah, .		0 42 92 04		E.
Angle between	en the North Pol	e and Yer	racondah,		92 47	05 .34	Ė.

Pole-Star Observations at Mullapunnabetta Station, reduced for determining the position of the Meridian.

														ايريد						
Nov.	7.	1	43	42	.37			1	46	24		170			.25	172	29	, 39	25	,
	8.	1	43	42	.03	ļ		1	46	23	.65	170	45	18		172	29	41	.65	
	10.	1	43	41	.36			1	46	22	.96	170	43	18	.37	172	29	41	.33	3
	12.	1	48	40	.71	1		1	46	28	.29	1170	43	18	(.13	172	(29	41	.49	
	13.	1	43	40	.39			1	46	21	.96	170	49	19	.38	172	29	41	.34	
	14.	1	43	40	.07			4	46	21	.64	1170	43	50		178	29	41	.64	
	15.	1	43	39	.75	1		1	46	21	.31	170	43	19	.62	179	29	40	.93	
	16.	1	43	39	.42	:	5	1	46	2 0'	.97	170	43	20		172	29	40	.97	
	17.	1	43		.11			1	46	20	.65	170	43	19	.25	172	29	30	.91	
	19.	1	43	38	.49		אנ אנ	ľ	46	20	.02	170	48	19	.25	172		59	.27	•
1805 } Dec. \$	12.	1	43	13	.21	1	3 3	1	45	54	.11	170	43	49		172	29	43	.11	
	13.	•1	4.3	13	.04	}	מ	1	45	53	.9	170	43	48	.25	172	29	42	.15	
	14.	1	43	12	.85	l		1	45	53	.71	170		48	.12	172	29	41	.83	
	15.	1	43	12	.67			1	45	53	.52	170	43	47	.75	172	29	41	.27	Ī
	16.	1	43	12	.49	1		1	45	53	.34	170	43	49	.25	172	29	42	.59	
	20.	1	43	11	.81	i i		1	45	52	.67	170	43	48	.2	172	29	40	.87	
	24.	1	43	41	.29	1		1	45	52	.11	170	43	48	.5	172	29	40	.61	
	25.	1	49	11	. 16	i		1	45	51	.99	170	43	50	.35	172	29	42		**
Angle b	etwee	n t			h Pol	e and	Refe	TTIUE	L	טעווי						178	49		.25	-
Angle b	ctwee	n tl	e R	cfer	ring	Lam	and	Save	indi	oog	,	• • • •		• • •		97		34		** *
Angle b	etwee	n t	he I	Vort	h Pol	e and	Save	endro	og.							89	48	44	.39	T.

Pole-Star Observations at Yerracondah Station, reduced for determining the position of the Meridian.

1804	Apparent Polar	Latitude.	Azimuths.		hetween			
Month.	Distance.				le-star & ing lamp.			
Jan. 15. 16. 19. 20. 21. 22. 23. 26.	1 43 50 .02 1 43 50 .07 1 43 50 .26	12 52 14" .36	1.46' 90' .12 1 46 50 .43 1 46 30 .51 1 46 30 .52 1 46 50 .56 1 46 30 .68 1 46 30 .87 1 46 30 .96	9° 3° 3° 3° 3° 3° 3° 3° 3° 3° 3° 3° 3° 3°	3 .85 2 3 .5 5 .5 3 .75 4	7 7 7 7 7	16' 36' 16 33 16 31 16 32 16 34 16 33 16 33 16 34 16 33	.42 .49 .97 .94 .12 .52
	the North Pole a the Referring La							.64 E. .97
Angle between	the North Pole	and Savend	roog,			86 5	9 41	.33 W

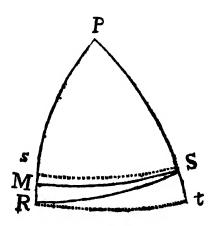
As the latitudes were necessary for computing the azimuths, they were first had spherically for the two stations at *Mullapunnabetta* and *Terracondah*, by taking the westing and casting from the meridian of *Savendroog*, and converting them into parts of great circles. These came so near the truth, that on recomputing the azimuths by the latitudes finally brought out, there was no sensible difference.

It may be remarked here, that no double azimuths have been taken. The pole-star being so low, and the vapour in the atmosphere so great in general, that I have never, except in two instances, been able to discern it while the sun was above the horizon.

The Arc comprehended by the Meridians of Savendroog and Mullapunnabetta.

LET S and M be the stations at Savendroog and Mullapunnabetta, and P

the pole, and SR be a great circle perpendicular to the meridian SP at S, and also Ss a parallel of latitude at the same point S. Then we have given the observed angles PSM and PMS, the distance SM, and the latitude of S, to find the latitude of M.



In the spheriodical triangle MSR, the angle MSR = $90^{\circ} - \angle PSM = 0^{\circ} 2' 14''.73$, and the angle SMR = $180^{\circ} - \angle PMS = 90^{\circ} 11' 15''.61$, and these being corrected for the chords, we shall have the angle MSR = 0 2' 14''.73, and the angle RMS = $90^{\circ} 11' 15''.52$ for the chord angles. Whence the angle SRM = 180° — sums of the above angles, or $89^{\circ} 46' 29''.69$, and with these and the side or chord MS, the distance given by the triangles, we shall find the chord of the perpendicular arc SR = 3576446 and the side MR = 233.64 feet, and this last may be taken either as a chord or arc indifferently.

Now the spherical excess of the triangle SMR is 0".02, and the sum of the corrections for the angles MSR and SMR being — 0".03, the difference between this sum and the said spherical excess is + 0".01 the correction for the angle MRS, which applied to the chord angle, we get the angle MRS or PRS as an observed angle, equal 89° 46' 29".68.

CONTINUE the meridian PS to t, and draw Rt parallel to Ss. Then, since the small angle SRt, or its equal RSE, is half the difference between the angles PRS and PSR, that is half the difference between 90° and the

angle PRS as an observed one, we have $\frac{90-(89^{\circ}46'\ 29''.68)}{2} = 6'\ 45'.16$, the angle RSs Hence in triangle RSs considered as a plane one, there are given the angles at R and S and the side SR, as formerly found, from which will be had Ss and Rs equal 357642.6 feet and 702.51 feet respectively; as also Ms (= Rs — RM) equal 468.87 feet, which measures the distance between the parallels of S and M. But 468.87 feet as an arc on the meridian is 4''.65, which subtracted from the latitude of S gives 12° . 55' 05''.59 for the latitude of M, the station at Mullapunnubetta.

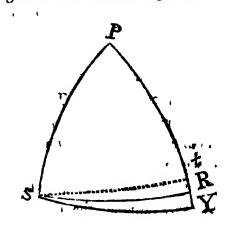
Hence in the triangle SPM there are given the sides SP and MP (the co-latitudes of S and M) and the angles PSM, PMS, the observed angles at S and M. Then, as the tangent 77° 4′ 52′.085: tangent 0° 0′ 2″.325:: tangent 89° 58′ 14″.88: tangent 0° 4′ 31″.26; which last applied to the half sum of the observed angles, we get 89° 53′ 14″.83 + 4′ 31″.26 = 89° 57′ 46″.09 and 89° 53′ 14″.83 — 4′ 31″.26 = 89° 48′ 48″.57 for the angles at Savendroog and Mullapunnabetta such as they would have been observed on a sphere. Then proceeding by spherical computation with the sides PS, PM, and the angles PSM and PMS given, the angle SPM, or difference of longitude of S and M will be had equal 1° 00′ 24″.44, from which and the side SP in the right angled spherical triangle PSR the side SR or arc SR perpendicular to the meridian PS at the point S will be had equal 0° 58′ 52″.71.

Now the chord of the arc SR is had = 357644.6 feet, half of which will be as the sine of half the arc SR, and from which is got the radius of the same arc, and thence the length of the arc SR is found to be 357650.8 feet. Then as 58' 52".71:357650.8::60': 364463.3 feet, or 60743.8 fathoms, for the measure of the degree at right angles to the meridian of Savendroog.

The Arc comprehended by the Meridians of Savendroog and Yerracondah.'

Let S and Y be the stations at Savendroog and Yerracondah respectively,

and let the latitude of Y be deduced from that of S, the affgles PSY and PYS having been observed. Let SR be a great circle perpendicular to the meridian SP at S, and St a parallel of latitude at the same point S. Here the angle RSY = PSY - 90° = 2°47 6".34, and



the angle RYS being the observed angle at Y = 86° 59′ 41″.33. These angles being corrected for the chords, the supplement to their sum will be the chord angle at R in the spheriodical triangle SRY. Let the chords of SR and YR be computed with the corrected angles, then if the angle at R be augmented by the difference between the sum of the corrections for the other two angles and the spherical excess, it will become 90° 13′ 14″.74, or such as would have been observed at R. Hence 180° — ∠SRY = 80° 46′ 45″.26 the angle t'RS, and by considering the triangle St'R as a plane one, the small angle t'SR is equal $\frac{90-Lt RS}{2}$ = 0° 6′ 37″.37. With this angle, and the angle t'RS, and the distance SR, as found above, the small side t'R is had=675.86 feet, which added to RY=17067.72 gives t'Y = 17743.58 feet, the distance between the parallels of S and Y. But 17743.58 feet is equal to an arc on the meridian of 2′ 55″.98, and this deducted from the latitude of Savendoog, gives 12° 52′ 14″.26 for the latitude of Terracondah.

HENCE, with the co-latitudes of Savendroog and Yerracondah, and the observed angles PSY and PYS, we have, the tangent of half the sum of the first, to the tangent of half their difference, as the tangent of

half the sum of the second, to tangent of 2° 54′ 25″.92, their 'half difference: from which we get the greater angle at S = 92° 47′ 49 .25, and the less angle at Y = 86° 58′ 57″.41 thus corrected for computing spherically: and with these and co-latitudes, proceeding as before, the angle SPY will be had = 0° 59′ 14″.83, and the perpendicular arc = 0° 57′ 44″.86. But the chord subtended by this arc is 350824 feet, and therefore the arc itself 350827.7 feet. Then, as 57′.74767: 350827.7 feet:: 60′: 364510.8 feet, or 60751.8 fathoms, for the length of the degree at right angles to the meridian of Savendroog, as deduced from the distance between Savendroog and Terracondah; and the length of the perpendicular degree deduced from the distance between Savendroog and Mullapunnabetta being 607438 fathoms, the mean of these two, or 60747.8 fathoms, may be considered as nearly the true measure for latitude 12° 55′ 10.″

Ir the ratio of the earth's diameters be taken as 1:1.003125, and the meridional degree in latitude 11° 59′ 55″ be 60494 fathoms; then, by using these data, the computed meridional degree on the ellipsoid in latitude 12° 55′ 10″ will be 60498 fathoms; with which and the above ratio, the computed degree at right angles to the meridian in the same latitude will be had 60858 fathoms, which exceeds the measured one by 110 fathoms nearly; so that we may infer from this, either that the earth is not an ellipsoid, or that this measurement is incorrect.

THE more we investigate this interesting subject, and the more ample means we employ to ascertain the exact figure of the earth, the more seems to be wanting to satisfy our research; and if we feel reluctant in giving up the elliptic hypothesis, because it is consonant to that harmony and order with which we are familiar, the discord which these results indicate, afford by no means sufficient evidence to induce us to abandon that theory. The great nicety in making the pole-star observations is well understood, and it will be made more manifest in the case before us by increasing or diminishing the half sum of the angles with the meridians, reciprocally taken at Mullapuanabetta and Savendroog, by one second only,

when it will appear that a difference of nearly one hundred and fifty fathoms, in the perpendicular degree, will be occasioned thereby.

I AM fully aware of the delicacy necessary in taking these angles, and I am also aware that some eminent mathematicians consider the method of determining the difference of longitude by the convergency of meridians as insufficient in these low latitudes; yet I am of opinion that by repeating these observations whenever stations can be found, either in the same, or in different latitudes, the truth may ultimately be very nearly attained. I at one time had determined on increasing the number of observations at Mullapunnabetta, Savendroog and Yerraconduh, on my return to the eastward; but when I was at Mullapunnabetta a second time, and had increased the number of pole-star observations there to eighteen, and had also taken several other angles between Savendroog and the referring lamp, and after all finding that the angle between the meridian and Savendroog was altered only to part of a second, I do I not think it necessary to go to the other stations, particularly as the observations there had been made under the most favorable circumstances. It is, not withstanding, desirable that many more measurements of the kind should be made, and that other methods should be tried for getting the length of a degree of longitude, particularly that of carrying a good time-keeper between two meridians at a known distance, a method which has been strongly recommended to me by the Astronomer Royal, and which I mean to put in practice in the course of my Atture operations. I had also devised another method by the instantaneous extinction of large blue lights fired at Savendroog, the times of which were to be noticed by observers at Mullapunnabetta and Yerracondah, the distance of whose meridians on a parallel of latitude passing through Savendroog being nearly 135 miles. The experiments were attempted, but the weather was so dull that the lights could scarcely be distinguished. There is besides a difficulty in fixing the precise moment of extinction and even in the most favorable state of the atmosphere, when the lights may be distinctly seen with the naked eye at near seventy miles distance, to come within half a second

of the truth, would be as near as the eye is capable of, which is equal to $7\frac{1}{2}$ in an angle at the pole: but the mean of a great number of successful results might come very near the truth.

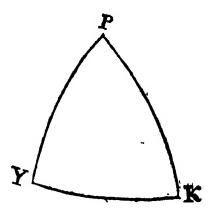
Since the triangles in this survey have been carried direct from the observatory at Madras to Mangalore, by which easy means are offered to determine the length of a parallel of latitude subtended by two meridians nearly five degrees and a half-distant from each other, it may be further suggested, whether a long course of corresponding observations made at Madras observatory and at another place on the Malabar coast, by the eclipses of the satellites, occultations of stars by the moon &c. might not afford another eligible method for determining the length of a degree of longitude,

In short, the difficulty of obtaining this desideratum, and the important advantages to geography and physical science which must accrue therefrom, are such powerful incitements to a zealous prosecution of the inquiry, that I may venture an assurance of leaving nothing undone, which may come within the compass of my abilities, to give every possible satisfaction on the subject; and if my endeavours to throw some light on the path to future discovery be successful, I shall close the period of my labours with the grateful reflection, that, while employed in conducting a work of national utility, I shall have added my humble mite to the stock of general science.

11. LATITUDE and longitude of Kylasghur.

LET Y be Terracondah, K Kylasghur, and P the pole. Then in the spherical triangle PYK there are given YP=77°7'45'.74, the co-latitude

of Yerracond.th, YK = 46' 33'.51, the oblique are as computed on the spheroid; and the angle PYK = 92° 13' 46'.11, as observed at Yerracondah, to find PK, the co-latitude of Kylasghur, which by spherical computation will be had equal 77° 9' 38".7, and therefore the latitude equal



12° 50′ 21″.3, with which latitude the azimuths being reduced, the polestar observations at Kylasghur will stand as follow:

1803 Month.	Apparent Polar Distunce.	T atitude.	Azimuths.	Angle between the Pole-star and Referring lamp.	Angle be the North Referring	Pole an
Dec. 3 . 7. 12. 13.	1. 43. 5474 1 43. 5382 1 43. 5281 1 43. 525	12.20.51"	1° 46′ 55′ .41 1 46 34 .51 1 46 33 .56 1 46 33 .46	3° 28 57" 3° 28 59° .4	1° 42' 21 1 42 17 1 42 21 1 42 20	.59 .89 .69
ingle Betw	sen the North Poleon the Referring	i and Refe Lamp and	rting Lamp,		1 42 20 89 17 57	.30 E
-	een the North Pol				87 35 37	.807V

If the same angle be brought out by using the co-latitudes of Yerracondah and Kylasghur, and the observed angle at Yerracondah, between the N. pole and Kylasghur, it will be 87°35′37′, very nearly the same as was observed.

THEN again, as the sine of either of the co-latitudes, is to the sine of the opposite angle, so is the sine of the oblique arc KY, to sine of the angle KPY, equal 47'42".98, the difference of longitude; to which add the difference of longitude between Yerracondah and Savendroog, equal 59' 14".83, we have 1°46' 57".81 for the longitude of Kylasghur, east from the meridian of Savendroog.

12. LATITUDE and longitude of Karnatighur, and the position of its-meridian, deduced from that of Kylasghur.

The southing of Karnatighur from Kylasghur is 95144 feet, equal to an arc of 15'43".61 on the meridian of Kylasghur; and the easting is 1093.83 feet, equal to 10".8 of a great circle at right angles to the said meridian, and passing through Karnatighur. From the nearness of the meridians of these two stations, the former arc may be considered as the difference of latitude, and therefore being subtracted from the latitude of Kylasghur, we have 12° 34' 37".69 for the latitude of Karnatighur. Hence, by using the co-latitude 77° 25' 22".31, and the small perpendicular arc 10".8, we shall have the difference of longitude 11".06, and the convergency of the meridian of Karnatighur towards that of Kylasghur 2".46 nearly. The former of which being applied to the longitude of Kylasghur, will give 1° 44'.8".87 for the longitude of Karnatighur from the meridian of Savendroog, E.

Now the observed angle at Kylasghur, between the north pole and Karnatighur, was 179° 20′ 28″.83, whose supplement is 0° 39′ 31″.17, which will therefore be the angle at Karnatighur, between the north pole, and the parallel to the meridian of Kylasghur; from which subtract the convergency, we get 0° 39′ 28″.71 for the angle between the north pole and K5 lasghur, westerly; and this subtracted from 93° 28 42″.22, the angle formerly taken at Karnatighur, between Kylasghur and Carangooly, gives 92° 49 13″.51 for the angle between the north pole and Carangooly.

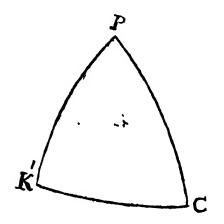
THE same angle taken at Karnatighur, in 1803, was 92° 49′ 15″.93, but as there is reason to doubt the accuracy of that angle, from reasons already

given, to which may perhaps be added the want of experience, I shall reject it and adopt the one now brought out for determining

13. THE latitude and longitude of Carangooly Hill.

THE length of the arc comprehended by the stations at Karnatighur and Carangooly, as determined by the triangles in 1803, was \$91196.9 feet, which, as an oblique arc, according to the present scales, will be equal 47' 56".21.

LET P be the pole, K' Karnatighur, and C Carangooly; and therefore K'C the oblique arc = 47' 56".21'. Then if (a), the observed angle at Carangooly, be made use of, (which must be accurate enough for this purpose) we have sine PK': sine / PCK':; sine K'C: sine angle



K'PC equal 49' 2".9, the difference of longitude. Hence 1° 47' 8".87 + 49' 2".9 = 2° 36' 11".77, the longitude of Carangooly from the meridian of Savendroog.

And as sine angle PCK': sine K'P:: sine \angle PK'C: sine PC = 77° 27' 48".2, the co-latitude of Carang My, whose complement 12° 32' 11".8 is therefore the latitude.

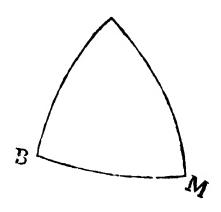
14. LATITUDE and longitude of Bulroyndroog, with the position of its meridian.

As the atmosphere was so extremely dull when the pole-star observations were made at Balroyndroog, the angle between its meridian and

⁽a) As determined in 1803, equal 87.00 07".54.

the station at Mullapunnabetta could not be taken, we must therefore depend altogether on computations made with the oblique arc, the latitude of Mullapunnabetta, and the angle at that station with the N. pole, and the station at Balroyndroog.

LET M and B be the stations at Mullapunnabetta and Balroyndroog respectively, and let P be the pole, then having given PM equal 77° 4′ 54″.41, BM the oblique arc equal 52′ 42″.12, and the observed angle PMB equal 75° 52′ 54″.95, we shall obtain by



spherical computation the side BP = 76° 52' 08".4 the co-latitude, and the angle BPM = 52' 25" 94 the difference of longitude, which add to the longitude of Savendroog from Carangooly hill, and Mullapunnabetta from Savendroog, there will be 4° 29' 05.15, the longitude of Balroyndroog from Carang. Ay hill.

TAKING the latitude hus found for computing the azimuths, the pole-star observations at Balroyndroog will stand as follow:

1805	- (Apparent Polar			Angle between	Angle between
Month		Distance.	Latitude.	Azimuths.	the Pole-star and Referring lamp.	
	0.54.56.75	1° 43′ 34′ .15 1 43 31 .82 1 43 35 .06 1 43 35 .35 1 43 35 .57 1 43 35 .80 1 45 36 .03	15.07. 51".6	1° 46′ 21′ .05 1 46 21 .73 1 46 21 .98 1 46 22 .95 1 46 22 .50 1 46 92 .74 1 46 22 .97	56" 46 43' .50 56 46 43 .75 56 16 13 .25 56 46 43 56 46 44 .5 56 46 44 .25 56 46 43 .44	55° 00° 29′ .45 55° 00° 29° .02 55° 00° 21° .27 55° 00° 20° .75 55° 00° 22 55° 00° 21° .51 55° 00° 90° .44

15. REDUCTION of some principal places on the two coasts in latitude and longitude.

	STATIONS AT	_	Places combated. In the Meridian of	elsts.	Distance	Distances on the	Distances from Be roymdroog on the	royndroog on the	J.,8
		_	Balroyndroog.	a	Perpendic.	Meridian.	Meridian. Perpendic.	Meridian	1tu
				feet.	fæt.	feet.	feet.	fect.	·
	Balroyndroog.	Bullamully	44. 57. 96" S. W	164945	164945 116546 W. 116722	-	116546 W.	3 231911	٥.
	Bullamully	Mangalore	18 13 58 W W 91	91769	91762 89834 W. 18714		N. 206380 W.	N 80086	_
			25 08 29 S. W	21990	23363 W.	_	139909 W.	166502	
	Goompay.		2 19 25 S. E.	101681	3920 E.	101606 S.	135980 E.	E. 268107	<u> </u>
		Kunduddakamıtlı	35 57 46	196146	74080 E.	102102 S.	65829 W.	S 69898	
	Kunduddakamull	Kunduddakamully. Monnt Dilli.	2	132113	10102 W.	W. 131796 S.	75931 W.	3 635001	
		Taddiandamole.	3 2	149160	135101 E.	63823 S.	69279 E.	331826	
	Taddiandamele.	Cannanore	8	157072	84986 W.	W. 132094 S.	15714 W.	463920	
Y		Tellicherry. 14 25	51	175847	S. W. 175847 45773 W. 1	1703H S.	25499 W.	W. 502137 ·	ان
4		•				•			
	TABLE S. Con	TABLE 2. Containing the angles, with the Meridian of Carangooly and its parallels,	s, with the Ma	eridian	of Carany	gooly and	d its para	llels, and	Ę
	· · th	the distances of certain places on the Coromandel coast from that Meridian,	t places on the Co	romanc	lel coast fi	om that N	feridian,		
			•						

Containing the angles with the Meridian of Balroyndroog and its parallels, and

TABLE 1.

the distances of certain places on the Malabar coast from that Meridian,

and from its perpendicular.

							1	
STATIONS AT	Places commuted.	Bearings referred	.stsi	Distanc	Distances on the	Kooly on the	gooly on the	-10
		Carangooly.	σ	Perpendic.	I € I	Perpendie	Men	er idian.
			Ę.	feet.	feet.	ier.	fee	
Carangooly Hill,	Mullapode	47.01" N.	_		137505	44105	E. 137505	
)		8 06 71		_	155406	65111	1.28406	
Mullapode Hill,	Fort St. George.	2 14 16 N	I		59497 N.	141065	3. 19700g	••
	Mowbrey's House.	14 14 N			39951	127008	E. 177456	
Mowbrev's House	Madras Observatory				15914	127009	E. 193870	
Permacoil Hill,	Mooratan Station.	2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			81426	37296	7, 20383	
Mooratan Station,		47 38 45 S. E.	23207	17150 E.	15626 S.	20146 W	W. 219467	Ø
	Trivandeporum.	43 21 8.		r	83217 8.	→ 06869	7,128,7045	si,
Trivandeporum,	Caddalore,	23 02 S.			8273 8	40676 V	7. 1995392	εń
								1

and from its perpendicular.

By table the 1st, Mangalore flag-staff is west from the meridian of Bul-royndroog 206380 feet, and south 98008 feet from the station; and these converted into arcs according to the above scales, will give 33'58' and 16 12" respectively, and the latter arc added to the co-latitude of Balroyndroog (equal 76° 52'8".4) gives 77° 08 20" for the co-latitude of the point where a perpendicular from Mangalore will cut the meridian of Balroyndroog at right angles. Then as Rad.: Cos. 77° 8' 20":: Cos. 33' 58' (the perpendicular): 77° 08' 22', the co-latitude of Mangalore.

And again, as Tan. 33' 58": Sin. 77° 08' 20':: Rad.: Cot.: 34' 50", the difference of longitude between Balroyndroog and the flag-staff at Mangalore.

By proceeding in the same manner with the other places on that coast, we shall have their latitudes, and their longitudes from the meridian of Balroyndroog as follow:

Names of Places.	Latitudes.	Longitudes from Bairoyndroog.
Mangalore Flag-staff, Backul Fort S. E. Cavalier, Mount Dilli Station, Cannanore Flag-staff, Tellicherry Flag-staff,	12 01 41 11 51 11	0° 34′ 50″ W. 0 22 55 W. 0 12 47 W. 0 02 38 W. 0 04 17 E.

By table 2d, the observatory at Madras is 127009 feet east, and 193570 feet north from the station at Carangooly, which converted into arcs give 20'54'.45 and 31'57".78 respectively; which being applied to the meridian and its perpendicular, passing through the observatory, and computing spherically, as in the last case, we shall obtain 13°048".7 for the latitude of the observatory, and 21'27".81 for its longitude east from the meridian of Carangooly. And by pursuing the same method of calculation, we shall have have certain places on the Coromandel coast referred to the meridian of Carangooly as follow:

Names of Places.	Latițudes.	Longitudes from Carangooly.
Madras Observatory, Port St. George Church Steeple, Pondicherry Flag-staff, Cuddalore Flag-staff,	15° 04′ 08′ .7 13° 04′ 45 11° 55° 56 11° 43° 23	°0° 21′ 27″ .81E. 0 23 44 E. 0 03 20 W. 0 06 48 W.

THE difference of longitude between the meridians of Carangooly and Balroyndroog, by Art. 14, is 4° 29' 15".15, to which add the longitudes of the different places from the respective meridians, as heretofore deduced, we shall have the difference of longitude of those places which lie nearly in the same parallels of latitude as follows:

Difference of Iongitude between the observatory and Mangalore, 5° 25' 23".

Church in Fort St. George and ditto, 5 27 45

Pondicherry and Cannanore, - - - - 4 28 13

Cuddalore and Tellicherry, - - - - 4 18

HERE it may be proper to notice that in the requisite tables, the difference of longitude between Fort St. George and Mangalore is 5° 27' 25", within 20" of what is here given; but the difference of longitude between Cuddalore and Tellicherry is 4° 8' 42", differing no less than 9' 18' from the triangular measurement.

APPENDIX.

TABLE of LATITUDES and LONGITUDES of some of the principal places, as deduced from the operations in general.

Note. In the abbreviations H signifies hill; P pageda, and Dg. droog. In all pagedas the tower is meant unless otherwise specified; or if they are stations, the platform is generally the place where the instrument stood, and is mostly marked by a small mill-stone. All places having the asterisk (*) annexed to them are the stations of the large theodolite, and are distinguished either by platforms with large stones in the middle, having small circles inserted thereon; or if on a rock, the circle is inserted on the rock, and in both cases the centre of the circle denotes the point over which the plummet was suspended.

		Longite	ide from
Names of Places.	Lutitude.	Madras Obser,	Greenwich.
ALLAMBADDY Fori,	12° 8′ 85′ N		77. 46' 5" E.
Allawoor H.	. 13 9 42	2 38 0	77 38 30
* Alligoor H.	. 13 16 18	0 31 34	79 44 56
ALDUMPARVA Port,	. 12 16 12	0 14 5	80 2 25
AMARATOOR Fort P.	. 12 55 23	3 18 55 -	76 37 95
Amboice Dg.		2 14 48	78 1 42
Amboor Dg.		1 32 8	78 44 22
Anchitty Dg.	12 35 23	2 21 45	77 54 45
ANKING! RRY Dg.	12 40 27	2 10 3	78 5 27
Annicui Fort P.	12 42 33	2 33 31	77 42 59
ARCOT FORT (Nabob's house),	42 54 14	0 54 57	79 21 33
ARNEE (Monument in the Fort),	12 40 19	0 57 58	79 18 32
Atcherawauk H. and P.	12 24 14	0 26 23	79 50 7
AUVI LI ONDAII,		1 1 54	79 14 96
BAEKUL Port,		5 15 28	75 3 2
* Bailippec H		2 58 28	77 18 2
BAILOON FORT P.		4 23 42	75 52 48
B BALLAPOOR Eedgah,		2 43 13	77 26 17
* BAIROSN Dg.	1	4 50 33	75 25 57
BANGALORE Palace,		2 40 45	77 35 45
BARCHORT Peak,	13 51 23	5 23 28	74 53 2
Bellagola (Great statue),		3 46 13	76 30 17
BILLOOR FORT P	10 58 58	3 31 26	76 45 4
BINKIPOOR Fort,	13 50 42	4 33 26	75 43 4

TABLE-CONTINUED.

Names of Blasses	T -dlands	Longitu	de from
Names of Places.	Latitude.	Madras Obser.	Greenwich.
Bettatipoer H. and P.	12° 27′ 14″ N	4 8' 25' W	76° 8' 7" 1
BHAVARY P.	11 95 45	2 34 19	77 42 11
Bodeemulia,	13 12 41	1 10 55	79 5 35
BODERIAMRAUZ Dg.	12 26 17	2 7 13	78 9 17
Bolcondan Dg.	12 37 15	2 8 14	78 8 16
Bomanelly H. and P.	13 16 18	3 37 1	76 39 20
Bonnairgottah,	12 48 43	2 40 41	77 85 49
Booggargooda,	13 3 4	5 15 16	75 1 14
Bullamully	12 48 33	5 10 14	75 6 16
Bullanaudgooda,	12 45 12	5 5 28	75 11 2
BUNDHULLY Dg.	12 12 16	2 55 2	77 21 28
BUSHUNGY Dg.	13 44 24	3 12 57	77 3 33
BYRAN Dg.	13 5 41	3 4 47	77 11 43
CANANORE FORT, Flag Staff,	11 51 11	4 59 1	75 23 29
Carangooly H.	12 32 12	0 21 28	79 55 2
AVERYPOORUM FORT,	11 54 43	2 29 36	77 46 54
AUVERYPAUK FORT,	12 54 15	0 47 18.	79 29 12
CHALAMCOTTAN Large Tree,		2 7 36	78 8 54
HARGUL Dg.	12 53 18	1 36 19	78 40 11
CHAYLOOR FORT,		3 21 1	76 55 29
Choetkul H.	13 19 16	2 56 59	77 17 38
Chendragherry Fort,		5 15 13	75 1 17
Chencaud,		0 39 45	79 36 45
CHENROYN Dg.	13 35 49	3 2 43	77 13 45
CHINGLEPET Fort Flag Staff,		0 16 12	80 0 18
Chani Dg.	12 42 18	1 42 19	78 34 11
Chineroyputtun,		3 51 53	76 28 37
Chittepet H	12 27 58	0 51 37	79 24 53
Chittepet Mosque,	12 27 55	0 53 58	79 22 32
DHITTLE Dg. Flag Staff,	14 13 4	3 51 34	76 24 56
CHITTOOR Fort,	13 13 5	1 9 27	79 7 3
CHOREEGHFRRY Dg	13 55 17	3 8 56	77 7 32
CHUNGAMAH,	12 18 4	1 27 24	78 49 6
COLAR FORT P.	13 8 20	2 6 49	78 49 41
Oonjevaram Great Pagoda,	12 50 47	0 32 52	79 43 38
Coonawaucum II.	12 50 56	0 18 51	79 57 37
Coonum II.	12 5 20	0 34 12	79 42 18
Covelong Church,	12 47 36	0 0 5 E.	80 16 35
CUDDALORE Flag Staff,	11 43 23	0 28 16 W.	79 48 14
CURPAN Fort,	13 14 39	3 24 11	76 52 19
Daesauncegooda,	13 15 46	4 6 34	76 9 5 6
Darampory I ort,	19 3 48	2 5 5	78 11 25
Januarya Jana Cart	12 31 59	2 27 53	77 48 37
DENKANICOTTAN Fort,	19 14 50	ଡ ୧ଡ ୯୦	77 43 52
DEONELLY FOTI,	19 37 39	2 37 36	77 38 54
Decrapation Decrease	19 99 95	3 2 28	77 14 9
Deonettry Fort, Deorabetta, Devaroy Dg. Dodagoontah,	19 50 50 1.9	2 37 40	77 38 50
Douagoontan,	19 90 19	5 34 14	74 42 16
		1 44 4472 178	1 /2 /2 /11

TABLE-CONTINUED.

Names of Disco-	7	Longitu	de from
Names of Places.	Latitude.	Madras Obser.	Greenwich.
Ennore Tree,	13° 14′ 59″ N.	0° 4' 49" E.	80-21'.12" E
Enoue Fort S. E. Cavalier,	11 20 27	2 31 26 W	T
French Rock's Pillar,	12 30 31	3 33 24	76 49 6
Cilnger Dg	12 15 18	0 51 19'	79 25 11
GOPAUL Dg	12 29 52	2 57 31	77 18 59
GOODEEBUNDAH De.	13 40 84	2 33 3	77 43 27
* Goompay H	12 40 19	5 14 10 11	75 2 20
GOONICUL Fort	13 1 33	3 13 34	77 2 56
Gooriattum P.	12 55 52	1 24 42	78 51 48
GUNGANGHERRY Dg	12 25 54	1 57 47	78 18 43
Gurradan Dg	18 28 54	4 0 47	76 15 43
Hallagamulla P.	11 0 52	2 48 54	77 27 36
* Hanandamulia,	12 55 57	0 51 14	79 15 16
II ARSUN,	13 0 13	4 9 42	76 6 48
Hoory Dg.	12 49 13	3 13 5	77 3 25
* Hunnalætta,	13 6 1	4 31 12	75 45 18
HUNNAMUN Dg	13 55 41	4 19 38	75 56 5 2
HURROOR FORT,	12 2 50	1 46 1	78 30 29
Hyperghur,	19 42 6	5 15 27	75 1 3
JAINKI Dg	13 54 35	3 59 50	76 16 40
MARKIN Non-		4 57 46 .	75 18 44
KARNATICHUR,	15 12 34	5 15 36	75 0 54
Kasragooda Fort,	12 34 38	1 10 31	79 5 59 75 0 27
KAUMUN Dg.	12 29 36 14 14 59	5 16 3 2 58 44	75 0 27 77 17 46 .
Kaup Battery,	13 13 24	5 31 21	74 45 9
KINTNAGHERRY,	12 32 15	2 2 9	78 14 21
KOADICONDAH Dg.	13 49 49	2 28 24	77 48 6
hongoondy Dg.	12 46 3	1 49 0	78 27 30
KOOMLAH FORT,	12 36 5	5 19 6	74 57 24
ACONDAPOOR Fort,	13 38 10	5 34 11	74 42 19
* Koondhully II.	12 39 33	4 29 21	75 47 9
* Koondoorbetta,	12 51 16	4 18 19	75 58 11
Kepa Dg	15 32 3	4 56 5	75 20 25
Kownan Dg	13 43 5	5 8 27	75 8 3
* Kuddapoonabetta,	12 55 37	5 22 29	74 54 1
Ku Og.	19 38 47	4 20 56	A5 55 32
* Wulkolah,	18 25 14	2 59 9	77 37 21
* Kumb darenemulla,	11 35 31	2 58 57	77 17 33
* Kunduddakamully,	12 23 28	5 1 39	77 14 51
* Kunnoor II	12 51 55	1 2 59	79 13 39
* ivil Asolit R,		1 10 42	79 5 48
Michin Dr.	13 25 58	2 45 4	77 31 26
NI SHIAP HIGH P.	12 50 56	0 43 12	79 35 18
B. T.P. A. (Obscivatory),	18 4 8 .7	0 00 00	80 16 50
'A''' Untary Dg.	19 16 6	0 52 32	79 28 58
marie 1 11 II. and P	12 39 57	3 36 9	76 40 21
Manakala Dg.	12 53 34	4 19 40	75 56 50

TABLE-CONTINUED.

Name of Plane	Y allenda	Longitude from		
Names of Places.	Latitude.	Madi as Obser.	Greenwich.	
Mullapode H	12 54 56" N.	0° 14′ 1′W.	80° 2' 29" E	
MALLAVILLY FORT (S. W. Cavalier),	12 23 0	3 11 54	77 4 36	
MANGALORE Fort (Flag Staff),		5 25 23	75 51 7	
Mannoor,	13 0 39	O 18 51	79 57 39	
Marakerra (Tree),	12 26 20	4 30 46	75 45 15	
Maumdoor H	12 44 44	0 34 59	79 41 31	
ALDAGASHIE De. MONOBO.	13 49 54	3 3 34	77 12 56	
Meejar Hill,	13 3 21	5 19 2T	74 57 9	
Ainchicul Dg.	13 27 47	3 3 16	77 13 14	
MOODABIDDERRY P	13 4 24	5 15 38	75 0 52	
MOODUWADDIE Dg	12 40 57	2 48 38	77 27 59	
Moolmy Fort,	13 5 12	5 28 13	79 48 17	
Monjerabad,		4 29 51	75 46 39	
Moratan,	11 58 30	0 27 42	79 48 48	
Mount Dilli,	12 1 41	5 3 20	75 13 10	
MOUNT St. Thomas' (Flag Staff),	13 0 20	0 3 18	80 13 12	
Munnescan D.	13 56 41	2 59 0	77 17 30	
MUDDUKSERAH Dg	13 39 7	3 3 11	77 13 19	
		1 25 22		
Muglee II. (Stone),	13 9 59	1 20 22		
IULLANAIG Dg. P.	12 44 43	1 39 2	78 37 28	
Mullapunnabetta,	12 55 6	9 58 4	76 18 26	
AULWAGGLE Dg.	13 10 14	1 52 6	78 23 24	
Mungot H.	13 0 3r	0 8 57	80 7 33	
Juntapum N. of Bangalore,	13 0 45	2 40 13	77 36 17	
Mylum H.	12 7 54	0 37 55	79 38 55	
MYSOOR FORT (High Cavaller),	12 18 21	3 35 59	76 40 31	
Mysoor H	12 16 40.5	3 35 2	76 41 28	
Naggerry Nose,	13 22 50	0 39 13	79 37 17	
NAGMUNGATUM Fort,	12 49 11	9 30 1	77 46 29	
VARRAIN Dg	12 42 45	3 40 7	76 36 25	
NARRIGUT Dg	13 7 54	1 3 58	79 12 32	
Naudkaunce,	10 55 57	2 38 10	77 38 20	
VEDDIGUL Dg. (Muntapum),	14 • 9 31	3 10 21	77 6 9	
NEGIGUL Dg. (Pillar),	13 14 50	3 2 17	77 14 13	
NUGGUR (BEDNORE) Flag Staff I	13 49 10	5 13 27	75 3 3	
Nundy Dg	13 22 12.5	2 34 1	77 22 29	
VUNJENGADE P	12 7 9	3 33 43	76 42 47	
DEA DE.	12,36 55	2 19 20	77 57 10-	
DEA Dg	15 4 21	2 23 13	77 48 17	
Dossoon H. and P.	12 43 33	2 21 49	77 51 41	
OTRAMALLOGR Fort,	12 56 55	0 29 32	79 46 58	
OOTUR Dg.	12 57 40	3 7 47	7 8 43	
OYMUNGGUL Fort,	14 5 44	3 43 15	76 33 15	
PATTICONDAN P	19 54 45	1 18 46	78 57 44	
Patticondal,	13 10 25	1 36 23	78 40 7	
Paudree,	13 19 41.3	0 34 8	79 42 22	
Paudite,	11 6 10	2 58 34	77 17 56	

TABLE __continues..

27	1	Longitude from			
Names of Places.	Latitude.	Madras Obser.	Greenwich.		
PEDNAIG Dg.	12° 57′ 33′ N.	1. 38' 4"W.	78" 58' 26" E.		
PERCONDAH Trec,	- 14 4 13	2 40 2.	77 36 \$8		
Pennagra Fort,	- 12 7 45	2 20 58	77 55 39		
* Permacoil H		0 30 45	79 45 48		
* Perambauk II	-1 12 53 7	0 3 9	80 13 21		
Pilloor II. PONDICHERRY Flag Staff,	13 13 59	6 53 50	79 22 40		
PONDICHERRY Flag Staff,	11 55 56	0 24 48	79 51 42		
" Гопповарина, ,	- 12 8 47	2 36 27	77 40 3		
* Poonauk H.	13 10 2	0 39 8	79 37 🕦		
POONAMALLER Flag Shaff,	13 2 37	0 8 16	80 8 14		
Pullicate Flag Staff	- 13 25 9	0 4 13 E.	80 20 43		
RANGUERRY Dg.	- 13 56 53	4 8 19 W.	76 8 11		
RAVALHELLORE Dg	- 11 58 0	1 19 32	78 56 58		
RIOJEM CHOULTRY,	12 52 25	0 29 54	79 46 36		
* Runganelly H. and P	- 13 39 55	3 25 23	76 51 7		
" Rungaswamy H. and P	1323	3 16 56	76 59 34		
RUNGYAN Dg	. 13 55 21	4 19 31	75 56 59		
RUNGYAN Dg.	13 54 14	4 9 30	76 7 0		
RYACOTTAH Flag Staff,	12 31 16	2 12 54	78 3 36 '		
* RYMAN Dg.	13 21 17	2 14 37	78 1 53		
SADRAS Flag Staff,	- 12 31 34	0 4 59	80 11 31		
St. GEORGE (FORT) Church steeple, -	- 13 4 45	0 2 22 E.	80 18 52		
SANKERRY Dg. Bungaloe on the top,	- 11 28 49	2 23 40 W.	77 52 50		
SATTIAGUL Fort,	- 12 14 58	3 6 5%	76 9 58		
SATTIMUNGALUM Fort Bungaloe,	- 11 30 17	3 0 15	77 16 15		
SAUTGHUR Building on the top,	- 12 57 49	1 - 00 -0	77 18 20		
* Savan Dg. Station near the Muntapum,	12 55 10 .24		76 56 1		
SERAIL FORT Flag Staff,	13,44 39	3 20 29 3 34 58			
SERINGAPATAM P	12 25 29		70 41 52 80 15 5		
Seven Pr. P. on the Rock,	12 36 56 14 9 46	2 44 58			
Sha Dg	. 14 9 46 . 13 55 33	4 40 25	75 36 5		
5//BEMPGA POTt, +	. 13 55 33 . 11 9 27	2 39 58	77. 36 32		
* Shennimulla,	13 10 9	3 1 51	77 14 39		
Shevagunga G. P	13 10 9 12 46 17	0 22 45	79 55 45		
SHEVERAM H. Choultry,	13 5 20	0 49 49	79 26 41		
SHOLANGHUR G. P.	19 39 44	4 34 11	75 42 19		
Soobramanee H. old P. (G. Mountain),	12 40 8	2 13 57	78 2 33		
AGHERRY Dg.	12 4 34	1 12 59	79 3 31		
SHOLOOPGHERRY Dg.	12 58 7	0 17 57	79 58 33		
STREET PERMATOOR P.		4 38 52	75 37 39		
* Taddiandamole,	13 8 5	0 10 46	80 5 44		
TAFF CUFTOO Dg.		1 39 42	78 '56 48		
TELLACHERDY Part / Plan State	11 44 59	4 46 16	75 '99' 14		
TELLAOHERRY Fort (Flag Staff),	12 31 51	0 40 5	79 36 25		
TENGRICOTIA Fort,	12 0 44	1 51 14	78 25 16		
* Thittamula	11 20 49	2 53 49	77 92 41		
* Thittamulia,	11 44 14	1 10 28	79 6 2		

TABLE-CONTINUED.

Names of Blass	T	Longitude from			
Names of Places.	Latitude.	Madras Obser.	Greenwick.		
TIMMAPOOR Dg	12° 24′ 14″ N.	1. 2.24.W.	79°14′ 8″ E.		
Firchunkode H. and P	11 22 29	2 20 59	77 55 31		
Pirekpara Fort,	13 42 34	4 26 20	75 50 10		
Ferikitchcoonum H. and P	12 36 37	0 11 17	80 5 13		
Tirtapully H.	13 2 25	2 21 55	80 5 13 77 54 55		
Prinomallee II	12 14 30	1 11 32	79 4 58		
P	12 13 53	1 10 46	79 5 44		
TTIPPASOOR Fort N. Face,	13 8 96	0 22 22	79 54 8		
Trivandeporum,	11 44 45	0 32 10	79 44 20		
Priviltoon P.	13 8 37	0 90 19	79 56 11		
Undar (ihaut (Peak),	13 20 32	5 10 45	75 5 45		
		1 11 11	78 17 41		
Unganamulla Dg	12 38 4		1.5		
Ungargooda,	19 1 13	5 13 49			
Urrumbaucum II.	18 12 5	0 23 53			
VAIPOOR Dg.	12 8 44	1 25 24	78 51 6		
VANDIWASE H. and P.	12 32 7	0 38 49	79 37 41		
Fort,	12 30 S2	0 38 47	79 37 43		
ANIAMBADDY,	12 40 19	1 38 98	78 37 2		
Veer Rajenderpett H. and P.	12 12 31	4 26 47	75 49 43		
ELLORE De.	12 54 59	1 5 45	79 10 45		
ELLORE FORT G. P.	12 55 20	1 7 15	79 9 15		
Vellengcaud,	12 20 41	0 18 47	79 57 13		
ENKETTYGHERRY Fort,	13 0 2	1 45 50	78 30 40		
RRABUD'R Dg.	12 23 20	2 8 41	78 7 49		
ILLANOOR P.	11 54 44	0 29 35	79 46 55		
WALLAJABAD Commanding Officer's house,	12 47 56	0 25 25	79 51 5		
WALLAJAPETT Mosque,	12 55 13	0 54 8	79 22 22		
WHOLY HONOOR FORT,	13 59 7	4 34 22	75 42 8		
Womootoor H.	12 4 55	3 22 1	76 54 29		
Woorachmulla,	11 28 37	2 33 43	77 42 47		
Wooritty H.	12 22 41	0 34 16	79 42 14		
Woos Dg.		5 09 48	75 06 42		
Wurrelcondah H. and P.	13 38 12	2 28 23	75 48 07		
Wuss Dg.	15 47 23	3 58	76 18 30		
aelmatoor H.	11 12 06	2 30 12	77 46 18		
AENIKUL Dg.	14 00 58	3 27 16	76 49 14		
Yamagherry H. and P.	12 48 46	8 12 19	77 4 11		
EGGOONDAH Dg.	13 16 41	2 59 46	77 16 44		
Yerracondah '(Mysoor),	LE 52 14 .26	1 1 1 1 1 1	78 18 05		
Yerracondah (Ceded Districts),	13 54 59	2 36 05	77 40 25		

ELEVATIONS and DEPRESSIONS, contained Arcs, terrestrial Refractions, together with the heights above the level of the sea, of all the principal Stations.

1. STATIONS lying in the nearest direction between the two seas, commencing with the S. end of the base near St. Thomas' Mount, whose perpendicular height above the low water mark is 18.7 feet.

Sm amazova am	STATIONS AT Stations Observed. Apparent:	Apparent.	mt.	Refrac.	Elevations above the sea.
SUATIONS AT		12 J	Stations. Heights		
S. end of the Base, .	Perumbank Hill, S. end of the Base, .	1 46′ 25″E.	} 1'21"	4	Perumbauk, fort. 272.9
Perumbauk,	Mullapode, Perumbauk,	0 06 18 E. 0 15 40 D.	\$ 10 41	T'u	Muliapode, 481.2
Carangooly,	Carangooly Hill, Mudlapode,	0 09 20 D.	20 01	7 6	Carangooly, 434.3
Wooritty Hill,	Wooritty Hill, Carangooly Hill, Permacoil Hill,	0 02 17 D. 0 10 25 D.	\$ 15 39	1	Wooritty, 552.7
Permacod Hill,	. Yermacoll 1111, . 'W ooruty Hall, . Maillacherry,	. 10 OL 38 D.	\$	1	Permucoil, 484.5
Maillacherry,	- Permacoil, Karnatighur,	. 0 26 47 D	15	1	Maillacherry, 1140.8 Karnatighur, 5204.0
Karnatighur,	Maillacherty, Kylasghur,	.jo 57 03 D	. \$ 25 21		Karnatighur, 5204.0 Kylasghur, 2766.2
Kylasghur,	- Karnatighur, - Yerracoadah,	. 0 12 53 D	1 2 AG 93	1 1	Yerracondah, 9396,9
Yerracondah,		. 0 17 55 D.	657 50	1 1	Savendroog, 4004.9
Savendroog,	Yerracondah, Mullapunnabetta,	. 0 31 10 1).	TED KO	1	Mullapunnabetta, - 3406.1
Mullapunnabetta,	Koondhully Hill, Mullapunpabetta,	.0 00 51 E	904 14	178	Koondhully, 4366.3
Koondhully Hill, Bullamully,	Bullamully,	. 1 17 40 D . 0 31 46 E	40 53	1.,	Bullamully, 774.5
To Hamully,	. Kudapoonabetta, BuHamally,	. 0 \$ 5 08 D . 0 14 15 E	13 6	172	Kudapoonabetta, 318.5
Fedgah Station.	Ledgah Station, Kudapoonabetta,	. O 33 29 E	. 6 2 23	3	Eedgah Station, 146.
Sta* on the Beach	Star on the Beach,	. 0 56 56 E	. 16 1 33	•	Station on the Beach, 22.
The station on th	e Beach above the	low water m	urk by n	neas	
		₹	Diffe	renc	e or error, 8.0

2. Stations not lying in the nearest direction between the two seas, and commencing from Kylasghur.

	·					
6	Surrice	1ppurent	3.	ac.	Elevations above the sea.	
STATIONS AT Stations Observed. 1: & D.	Cont. Arcs.	Refrac.	Stations. Heights			
Yerracondah,	Patticondah, Yerracondah,	or 21' 29"D.	28' 6"	3 E	Patticondalı, feet.	
Patticondah,	Bodoemulla, Patticondah, Patticondah, Patticondah, Patticondah	0 40 25 D.	24 53	1.6	Bodcemulla, 1646.6	
Yerracondah, Rym undroog,	Rymandroog,	0 0 39 D.	§ 33 4	10	Rymandroog, 4226.8	
Rymarhoo,	1	0 10 26 E.	18 54	ر د	Nundy draug, 4856.8	
Nundydroog, Devatoydroog,	Devaroydroog,	0 30 56 D.	27 40	T1	Devaroydroog, 3940.2	
Yerracondah,	Tutapuky,	0 16 9 D.	25 4	21	Tirtapully, 3182.9	
Tutapully Hill,	Bonnaugottah,	0 7 16 D.	22 49	21	Bonnairgottul, 3305.1	
Bonnairgottah,	S. End of the Base, .	0 25 38 D.	2 7 11	i	S. end of Base, 3023.6	
Savendrood,	Bonnairgotali, Bundhullydroog,	- 0 15 41 D.	12 10 10	1	Bundhullydroog, 1254.5	
Deorabetta,	Savendroog,	0 17 18 E	28 47	1	Ponnassmulla, 4928.3	
Ponnassmulla,	Deorabetta, Paulamulla,	. O 11 46 D	. 2 97 40	1.	Paulamulia, 4958.5	
Paulamulla,	Ponnassmulla, Woorachinulla,	. 2 31 47 D	1 2 10	1	Woorachmulia, 1472	
Bonn urgottah,	- Paulamulla, Deorabetta,	-0 0 0	11 95	1	Deorabetta, 3408	
Woorachmulla,	Bonnairgottah, Shennimulla,	-0 0 6 T		- 1	Shennimulla, 1788.6	
Shennmulla,	- Woorachmulla, - N. W. cud of Base,	0 48 13 E		- 1	N. W.cad of Base, - 1060.5	
Shennimulla,	Shennimulla, Puchapollium,	-0 48 53°I	<u> </u>		Puchapolliam, 1010.4	
N. W.end of the Ba	Shennimulla, S. E. end of Base,	-0 16 26 1	3:13	- 1-	S. L. end of Base, _ 925.5	
Bonnairgottah,	e, N. W. end of Base, - Dodagoontah,	·- 0 18•10 F	J.)		Dodagoontah, 3037.9	
Allason Hill,	- Masoor Hill, Tutapully,	-0 14 58 1), 6 17 10		Allasoor Hill, 9000	
Kulkotah,	- Kulkoʻth,	-0 8 H I). \$ 13 3*	,1	Kulkotah, 3406.6	
Kalkotah, Yerracondah,	- Yerracondah, Kulkotah,	-0 23 45 1 -0 2 30 I	29 54		Yerracomlah, 2848	
Yerracondah,	Bomasundrum,	0 16 21	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	Bomasundrum, 2037.7	
Yerracondah,	Paughu,	n 6 🍑 I	24 34		Paughur, 3002.	
Savendroog,	Cheetkul,	. lu 26 33 I	24 7		Cheetkul, 329:	



ACCOUNT OF TRIGONOMETRICAL

TABLE-CONTINUED.

	Station Olivery	Apparent	Cont. Arcs.	Refrac.	Elevations above the sea.	
STALIONS AT	Stations Observed.	E'. & D'. 34		2	Stations. Height	
Cheetkul Hill, Bulipper,	Bailipper,Cheetkul,	0° 2 5′ 34″D. 0 6 56 E.	} 19° 52"	3 ¹ 2	Bailippes, 2760.6	
Bundhully,	Kumbetarene,		36 56		Kumbetarine, 5548.6	
Kumbetærenemulla, Bundhully, Mysoor Hill,	Bundhully, Mysoor Hill, Bundhully,	0 29 27 D.	12 1		Mysoor Hill, 3446.6	
Mysoor Hill,	Bettatipoor, Mysoor Hill,	0 0 11 D.	34 14	7	Bettatipoor, 4349.7	
	Bettatipoor Hill, Mullapunnabetta,	0 5 6 E.	29 37	18	Bettatipoor, 4347.5	
Mullapunnabetta, . Bomanelly,	Bomanelly,	0 18 52 D.	29 30	3'0	Bomaselly, 3142.3	
Bomanelly, Daesauncegooda,	Daesauneegooda, Bomanelly,	0 0 6 E.	28 46	16	Daesauneegooda, 5804.1	
Dacsauneegooda, Hannabetta,	Hannabetta,	0 9 27 1).	\$ 25 54	17	Hannabetta, 3711.1	
Balroyndroog,	Mullapunnabetta, .		\$ 52 42	24	Balroyndroog, 4998.9	
Bettatipoor,	Taddiandamole, Bettatipoor,	0 8 15 E. 0 37 30 D.	1)		Taddiandamole, 5681.8	
Taddiandamok,	Mount Dilli, Taddiandamole,		26 27 24 34	+	Mount Dilli, 804.7 Kunduddakamully, 1556.9	
kundaddakamuily,	Backul,	. 1 31 47 D.	311 33		Backul, 86.7	
Bullamully,	Kunnoor Hill, Bullamully,	- 0 2 9 53 D	11 48	7'5	Kunnoor, 258.9	
Koondhully,	soobramanee,	. 2 22 57 E	4 32	뀨	Soobramance, 5583.5	
Koondhully,	Koondoor Hill,	. 0 25 49 D.	י ארי רוכו	17	Koondoor Hill, 3844.	
Meeiar Hill.	Koondhully, Kudapoonabetta,	. 0 11 25 E. 0 23 31 D.	9 52	اجرا	Mccjar Hill, 651.9	
Meejar Hill,	Booggargooda,	0 1 16 D.	1 _	1 1	Booggargooda, 654.9	
	Meejar Hill,		1	1		
Station on the Beach, Kooliebogoods,	Kooliebogooda, Station on the Beach,	0 17 55 D.	6 5	#	Kooliebogooda, 2004	



AR ACCOUNT of the MALE PLANT, which furnishes the Medicine generally called COLUMBO, or COLOMBA Root.

BY DOCTOR ANDREW BERRY,

Member of the Medical Board of Fort St. George...

KALUMB of the Africans.

COLOMBA, or COLUMBO of the Shops.

It is spelt Kalumbo by the Portuguese, in whose language the o is mute, and from this the name originated, by which this valuable root is known in Europe. It is a staple export of the Portuguese from Mozambique, and from the quantity exported, it is remarkable that the place of its growth, should have been so long unknown or doubtful to the rest of Europe.

It is never cultivated, but grows naturally, and in abundance, in the thick forests, that are said to cover the coast about Oibo, and Mozambique, and inland about-15 or 20 miles. The roots are dug-up in the month of Mirch, the dry season; or when the natives are not employed in agriculture; not the original root, which is perennial, but offsets from its base, that are of sufficient size, yet not so old as to be suil of sibres, which render it unsit for commerce.

This root is in high estimation among all the Africans, even far removed from Mozimbique, for the cure of dysentery, which is frequent among them; for venereals; for all complaints of long standing; in powder for the cure of ulcers, and as a remedy for almost every disorder.

SOON after it is dug up, the root is cut into slices, strung on cords, and hung up to dry in the shade. It is deemed merchantable, when, on exposure to the sun, it breaks short; and of a bad quality when it is soft, or black.

Am indebted for the above account of the columbo root, to Mons. FORTIN; who, when at Mozambique, purchasing it as an article of trade, procured an entire offset from the main root, of a larger size than usual; which he brought with him to Madras, in September 1805; and presented it to Doctor James Anderson, the Physician General; who confidered it a valuable present to himself, and a great acquisition to India.

This root was cylindrical, somewhat flattened on the opposite sides; about 15 inches in length, a part being broken off; and between 3 and 4 inches in diameter; outwardly the common colour of columbo, but on breaking the surface, which is covered by a thin, tender, brownish pellicle, of a fine yellow.

THE root being succulent, and heavy, I planted it horizontally in a large box, silled with garden mould, where, in about a fortnight, it shot out two stems from the end that had been broken off from the parent root, but from not being vigorous, no slowers were then produced; and in about six months, from the time it had been planted, the stems withered down to the ground.

The root was then carefully taken up, which was not altered in fize, or appearance, but from the end opposite to where the stems had shot out several sufform roots, or sessible tubers, had grown, as represented in the accompanying drawing. (Fig.2.) These had evidently suffered from con-

finement in the box; none of the roots were then separated, and the whole was deposited in a cool room, and covered with moist sand; where in about two months, the old root began again to throw out several buds from the same end as before. It was now planted in the ground, which one more vigorous shoot, which grew rapidly, soon destroyed the others; and in a month this shoot produced male slowers only, nor after the strictest search, could any other be sound on the plant, so that the genus is as yet uncertain.

This stem, like the former, withered in six months, when the roots were dug up, and found considerably larger, but not much altered in shape, nor had any of them attained a size to be compared with the original. There was only the addition of one new lateral root or branch, from this second year's growth. As it was supposed that these roots would now vegetate, they were detached; which has been unfortunate, as several months have now elapsed, and no buds have formed; they are however still very fresh, and may yet grow. From this it appears that only large roots are sit for planting out.

From the male flowers, and habit of the plant, the columbo feems to belong to the natural order of Sarmentaceae Linn, or Menisperma of Jussieu. The following description may help to decide.

PLANTA Herbacea.

RADIK perennia, ramosa; rami fusiformes.

Causas annus, post sex, aut septem menses marcescens, volubilis, simplex, teres, pilesus, crassitudine pennæ.

Folia alterna, petiolata, semipedalia et majora, subrotunda, quinqueloba, quinquenervia; lobis integerrimis, acuminatis.

Perioli teretes, pilosi, basi reflexi, folio paulo breviores.

MASCULI Flores.

Racemi axillàres, solitarii, compositi, pilosi, folio breviores. Pedunculi partiales alterni, floribus sessilibus.

BRACTEE lanceolate, ciliate, decidue.

CALYZ Perianthium hexaphyllum; foliolis equalibus, tribus exterioribus, tribus iterio. --

Cozolla hexapetala, minuta, Petala cuneato-oblonga, concava, carnosa, obfusa, stamina smbientia.

STAMINA, Filamenta sex, corolla paulo longiora. Anthera quadriloba, quadriloculares.

PISTILLUM nullum.



EXPLANATION OF THE FIGURES.

- Fig. 1. The extremity of the shoot that slowered in 1807, rather smaller than the natural size.
 - 2. The whole root, about one third of the natural fize only;
 - 3. One of the brackeæ.
 - A. The underside of one of the slowers.
 - 5. The upperfide of the same. These three are magnified.
 - 6. One of the petals more magnified than the last three.
- 7. The underside of one of the stamina, in the enlarged apex: of which the four polliniferous pits are seen.

VI.

On SANSCRIT and PRACRIT POETRY.

By HENRY THOMAS COLEBROOKE, Esq.

The design of the present essay is not an enumeration of the poetical compositions current among the Hindus, nor an examination of their poetry by maxims of criticism, recognized in, Europe; or by rules of composition taught in their own treatises of rhetorick; but to exhibit the laws of versification, together with brief notices of the most celebrated poems in which these have been exemplified.

An inquiry into the profody of the ancient and learned language of India will not be deemed an unnecessary introduction to the extracts from Indian poems, which may be occasionally inserted in the supplementary volumes of Asiatick Researches: and our transactions record more than one instance of the aid which was derived from a knowledge of Sanscrit prosody, in decyphering passages rendered obscure by the obsoleteness of the character, or by the maccuracy of the transcripts. It will be found similarly useful by every person who studies that language; since manuscripts are in general grossly incorrect; and a familiarity with the metre will frequently affist the reader in restoring the text where it has been corrupted. Even to those, who are unacquainted with the language, a concise explanation of the Indian system of prosody may be curious, since the artisice of its construction is peculiar, and not

Vot. I. p. 279. Vol. II. p. 389.

devoid of ingenuity: and the prolody of Sanscrit will be found to be richer than that of any other known language, in variations of metre, regulated either by quantity or by number of fyllables, both with and without rhyme, and subject to laws imposing in some intrances rigid restrictions, in others allowing ample latitude. I am prompted by the considerations to undertake the explanation of that system, premising a few remarks on the original works in which it is taught, and adding notices of the poems from which examples are selected.

The rules of profody are contained in Sútras or brief aphorisms, the reputed author of which is Pingalana'ga, a fabulous being, represented by mythologists in the shape of a serpent; and the same, who, under the title of Patanjali, is the supposed author of the Mahábháshya, or great commentary on grammar, and also of the text of the Yóga s'ástra; and to whom likewise the text or the commentary of the Jiotish annexed to the Védas, appears to be attributed. The aphorisms of Pingala'cha'ra, as he is sometimes called, on the prosody of Sanscrit (exclusive of the rules in Prácrit likewise ascribed to him), are collected into eight books, the first of which allots names, or rather literal marks, to seet consisting of one, two or three syllables. The second book teaches the mapper, in which passages of the Védas are measured. The third explains the variations in the subdivision of the couplet and stanza. The south treats of profane poetry, and especially of verses, in which the number of syllables, or their quantity, is not

Or Sanc'hya system of philosophy; distinguished from that of CAITLA.

to SESHANAGA: but, in the body of the work, the commentator calls himself SO'MA CARA.

The fifth, fixth and seventh exhibit metres of that fort which has been called monoschemistic, or uniform, because the same sect recur invariably in the same places. The eighth and last book serves as an appendix to the whole, and contains rules for computing all the possible binations of long and short syllables in verses of any length.

This author cites earlier writers on profody, whose works appear to have been lost: such as SAITAVA, CRAUSHTICA, TA'NDIN and other ancient sages, Ya'sca, Ca's'YAPA &c.

PINGALA'S text has been interpreted by various commentators; and, among others, by Hela'yud'ha bhat't'a, author of an excellent gloss entitled Mitta sanjivini. It is the work on which I have chiefly relied. A more me dern commentary, or rather a paraphrase in verse, by Na'-RA'YAN'A BHAT'T'A TA'RA', under the title of Vittocti ratna, presents the singularity of being interpreted throughout in a double sense, by the author himself, in a surther gloss entitled Paricshai.

THE Agnipuran'a is quoted for a complete system of prosody, the founded apparently on Pingala's aphorisms; but which serves to correct or to supply the text in many places; and which is accordingly used for that purpose by commentators. Original treatises likewise have been composed by various authors: and among others by the celebrated poet

[•] I possess three copies of it; two of which are apparently ancient: but they have no dates.

[†] It is stated by the authors, who quote it, (NA'RA'YAN A BHAT'T'A and others,) to be an extract from the Agni puran'a: but I have not been able to venty its place in that Puran'a.

[‡] Such are the Vân'ibhûshan'a, Vritta-derpan'a, Vritta-caumudi, and Vritta-retnûcara, with the Ch'hande-manjari, Ch'hande-martanda, Ch'hande-mātû, Ch'hande-niviti, Ch'hande-gévinda, and several tracts under the title of Vritta-mustávali, besides treatises included in works on

CA'LEDA'SA. In a short treatise entitled Sruta bod'ha, this poet teaches the laws of verification in the very metre to which they relate; and has thus united the example with the precept. The same mode has been also practised by many other writers on prosody; and, in particular, by Pingasa's commentator Na'sa'yan'a bhat't'a; and by the author of the Vritta Ranácara and Vritta derpan's.

CA'LIDA'SA'S Sruta bód'ha exhibits only the most common sorts of metre, and is sounded on PINGALA'S Prácrit rules of prosody; as has been remarked by one of the commentators* on the Vritta Retnácara.

The rules, generally cited under the title of Prácrit Pingala, have been explained in a metrical paraphrase, teaching the construction of each species of metre in a stanza of the same measure, and subjoining select examples. This Prácrit paraphrase, entitled Pingala vritti, is quoted under the name of Hammi'ra, who is celebrated in more than one passage given as examples of metre: and who probably patronised the author. It has been imitated in a modern Sanscrit treatise on Prácrit prosocy entitled Vritta muctávalí; ‡ and has been copiously explained in a Sanscrit commentary named Pingala pracása.

other subjects. For example VARA HAMIHIRA'S system of astrology, which contains a chapter on profody.

The Vritta-retnúcara of CE'DA'RA BHAT'T'A, with its commentaries by DIVA'CARA BHAT'T'A, NA'RA'YAN'A PHAT'T'A and HARI-BHA'SCARA, has been the most consulted for the present treatise. The Vritta-derpan'a, which relates chiefly to Prácrit prosody, has been also much employed.

^{*} DIVA'CARA BHAT'T'A.

[†] In the commentary on the Vrittosti-ratna,

The author DURGA'DATTA was patronifed by the Hindupati princes of Bundelc'hand. The examples, which like the text are Sanscrit in Pracrit measure, are in praise of these cheettains.

By VIS WARAT'HA.

THOUGH relative to Prácrit profody, the rules are applicable, for the most part, to Sanscrit profody also: since the laws of versification in both languages are nearly the same.

this name by dramatick writers; and not in a more general sense of the term, any regular provincial dialect corrupted from Sanscrit. HE'MA-CHANDRA, in his grammar of Práctit, declares it to be so called because it is derived from Sanscrit.

Accordingly his and other grammars of the language confift of rules for the transformation of Sanscrit words into the derivative torgue: and the specimens of it in the Indian dramas, as well as in the books of the Juins, exhibit few words which may not be traced to a Sanscrit origin. This is equally true of the several dialects of Prácrit: viz. S'auraséní or language of Súraséna, and Mágad'hí or dialect of Magad'ha; which, according to grammarians, who give rules for deducing the first from Sanscrit and the second from the first or both from Sanscrit are dialects nearly allied to Irácrit, and regularly formed by permutations, for which the rules are stated by them. The same may be said

प्रकृतिः संस्कृतं ॥ तचभवं तत आगर्भवाप्राञ्चतं ॥

[†] CULLU'CA BHAT'T'A (on MENU 2. 19.) says, that S'urasena is the country of Mat'hura.

[‡] Cicata or Bibar. But it does not appear, that either this, or the preceding dialect, is now fpoken in the country, from which it takes its name. Specimens of both are frequent in the Indian dramas.

[€] VARARUCHI and his commentator BHA'MAHA.

HE MACHANDRA, who, after stating the special permutations of these dialects as derived from Sanserit, observes in both places, that the rest of the permutations are the same with those of Prierit.

of the Puis'achi, as a language, (and distinguished from the jargon or gibberish which either dramatick writers, or actors exhibiting their dramas, sometimes put into the mouths of demons); for the grammarians of Prácrit teach the manner of forming the Pais'achi from the dialect called S'auraséní.† That remark may be also extended to Apabhransa as a fixed language partaking of Prácrit and Sauraséní, but deducing many terms immediately from the Sanscrit under rules of permutation peculiar to itself. ‡

The affinity of these dialects of Prácrit to the Sanscrit and to each other is so great, that they reciprocally borrow, notwithstanding their own particular rules, terms permuted in the manner of other dialects, and even admit, without alteration, words inslected according to the Sanscrit grammar. They may be, therefore, considered as dialects of a single language, the Prácrit or derivative tongue; so termed with reference to Sanscrit, from which it is derived.

Besides these cognate dialects, the dramatick writers introduce other languages as spoken by different persons of the drama. Such, according to the enumeration in the Sáhitya derpan'a, || are the Dácshi-n'atya, || or language used in the south of India; the Drávi'dí or

^{*} Or language of the Pistachas. पिकार्वानाभाष्यिकाची - शिक्ष MAHA on VARARUCHI.

[†] VARARUCHI and HE MACHANDRA. The last mentioned author notices a variation of this dialect under the name of Chülicápais áchí; which differs very little from the proper Pais achí.

[†] It is taught under this name by He MACHANDRA, among other dialects of Prácru. But the name usually fignifies ungrammatical language.

[&]amp; HE MACHANDRA ad finem.

H Ch 5.

[¶] Same with I aidar hhi, according to the commentator of the Sahitya derpan'a. The country of I ider bha is faid to be the modern Berar proper.

Malest of the southern extremity of the peniasula; the Avanticá (probably the language of Málavá); the Ard'ha mágad'hí, distinguished from Mágad'hí properly so called; the Báhlicábháshá, perhaps the language of Balk in the Transexana); the Maháráshtrí or dialect of the Markutas; the Práchyá or language employed in the east of India; ‡ the Abhtrí and Chándálí, which from their names, seem to be dialects used by herdsmen and by persons of the lowest tribes; the Sáncará and Sábarí, concerning which nothing satisfactory can be at present suggested; and generally any provincial dialect.

It is not to be supposed, that the Práctit rules of prosody, as taught by Pingala, are suited to all these languages: but it is probable, that they were framed for the same dialect of Práctit, in which they are composed; and they are applicable to those cognate dialects, which differ much less from each other (being very easily consounded), than they all do from Sanscrit, their acknowledged common parent: Generally those rules may be considered applicable to all the languages comprehended under the designation of Práctit, as derivative from Sanscrit; and certainly so to the vernacular tongues of the ten nations of Hindus now inhabiting India. A writer on Sanscrit prosody! pro-

^{*} Avanti is another name of Ujjayani.

[†] Bablica or Bablica (for the word is spelt variously) is a country famous for the breed of horses. AMERA. 2 8. 45 It appears to be situated north of India; being mentioned in enumerations of countries, with Turusbea, Chasa, Casmira &c. (He'MACHANDRA. 4. 25. Tricanda sesha. 2. 1. 9)

[†] The commentator on the Sáhitya derpan'a (RA'MA CHARAN'A), interprets Práchya, by Gau'diyá; meaning, no doubt, the language of Bengal He was himself a native of this province; and his work is modern, being dated S'aca 1622 (A D. 1700)

[§] As. Res. VII p. 219.

NA'RA'YAN'A BHAT'T'A in a commentary on the Vritta retnácara written in Sambat 1602 (A D. 1546)

Languages, and has quoted examples in those of Maháráshtra, Gurjara and Canyacubja. The last mentioned, which is the same with the old Hindi, as is demonstrated by this specimen of it, might surnish very numerous instances; especially the Hindi poetry of Ce'sava da'sa, who has studiously employed a great variety of metre. Some examples will accordingly be quoted from the most distinguished Hindi poets. The sacred books of the Sikhs, composed in a Penjábi dialect, which is undoubtedly derived from the ancient Sáreswata, + abound in specimens of such metre. The language of Mil'hilá, and its kindred tongue, which prevails in Bengal, also supply proof of the aptitude of Sanscrit prosody: and the same is probably true of the other sour national languages. ‡

Pingala's rules of Sanserit profedy are expressed with singular brevity. The artistice, by which this has been effected, is the use of single letters to denote the seet or the syllables. Thus L, the initial of a word signifying short (lug'hu), indicates a short syllable. G, for a similar reason, intends a long one. The combinations of these two letters denote the several diffyllables: lg signifying an immbic; gl a trochæus or choreus; gg a spondee; ll a pyrrichius. The letters, M.Y.R.S.T.J.Bh. and N, mark all the trisyllabical seet, from three long syllables to as

^{*} Contemporary with JEHA'NGIR and SHA'H JEHA'N.

¹ The remaining Sáreswata brúl man'as inhabit chiefly the Penjáb.

[‡] Those of Dravida, Carnútaca, Telinga, and Odra or Udiya. I omit Gaura. The Brahmen'as, bearing this national designation, are settled in the districts around Delhi: but, unless them so the language of Mat'hurá, it is not easy to assign to them a particular national tongue

f Being the initial of guiu, long.

many short. A Sanscrit verse is generally scanned by these last mentioned seet; with the addition of either a dissyllable or a monosyllable at the close of the verse, if necessary. This may be rendered plain by an example taken from the Greek and Latin prosody.

Scanned in the *Indian* manner, a phaleucian verse, instead of a spondee, a dactyl and three trochees, would be measured by a molossus, an anapæst, an amphibrachys and a trochee; expressed thus, m. s. j. g. l. A sapphic verse would be similarly measured by a cretic, an antibacchius, an amphibrachys and a trochee; written, r. t. j. g. l.

To avoid the too frequent use of uncommon terms, I shall, in describing the different forts of Sanscrit metre, occasionally adopt a mode of stating the measure more consonant to the Greek and Latin prosody, in which the iambic, trochee, and spondee, dastyl, anapæst, and tribrachys are the only seet of two or three syllables which are commonly employed.

In Prácrit prosody the variety of feet is much greater: verses being scanned by seet of different lengths from two mátrás, (two short syllables or one long) to three, sour, sive and even six mátrás or instants. These various descriptions of seet have been classed, and denominated, by the writers on this branch of prosocy.

The verse, according to the Sanscrit system of prosody, is the component part of a couplet, stanza or strophe, commonly named a S'láza, although this term be sometimes restricted to one fort of metre, as will be subsequently shown on the authority of Ca'lli-

DA'SA. The stanza or strophe consists usually of four verses denominated páda; or, considered as a couplet, it comprises two verses subdivided into pádas or measures. Whether it be deemed a stanza or a couplet, its half, called ard has loca, contains usually two pádas; and in general the pauses of the sense correspond with the principal pauses of the metre, which are accordingly indicated by lines of separation at the close of the S'loca and of its hemistich. When the sense is suspended to the close of a second S'loca, the double stanza is denominated Yugma; while one, comprising a greater number of measures, is termed Culaca. In common with others, I have fometimes translated Sloca by "verse," or by "couplet;" but, in prosody it can only be considered as a stanza, though the pauses are not always very perfectly marked until the close of the first half: and, in conformity to the Indian system, it is generally treated as a tetrastich, though some kinds of regular metre have uniform pauses which might permit a division of the stanza into eight, twelve, and even fixteen verses.

In Prácrit prosody, a greater variety is admitted in the length of the stanza; some species of metre being restricted to a true couplet, and others extended to stanzas of six and even sixteen verses: independently of pauses, which, being usually marked by rhyme, would justify the farther subdivision of the stanza, into as many verses as there are pauses. Even in Sanscrit prosody, instances occur of stanzas, avowedly comprising a greater or a less number of verses than sour: as three, sive, six, &c. But these are merely exceptions to the general rule.

Concerning the length of the vowels in Sanscrit verse, since none are ambiguous, it is only necessary to remark, that the comparative length of syllables is determined by the allotment of one instant or mâtrá to a short syllable, and two to a long one; that a naturally short vowel becomes long in prosody when it is followed by a double or conjunct consonant; and that the last syllable of a verse is either long or short, according to the exigence of the metre, whatever may be its natural length.

Sanscrit profody admits two forts of metre. One governed by the number of fyllables; and which is mostly uniform or monoschemastic in profane poetry, but altogether arbitrary in various metrical passages of the Vidas. The other is in fact measured by seet like the hexameters of Greek and Latin: but only one fort of this metre, which is denominated Aryá, is acknowledged to be so regulated; while another fort is governed by the number of syllabick instants or mátrás.

or by the nasal termed Anuswa'ra, or the aspirate Visarga. By poetical license, a vowel may be short before certain conjuncts (viz. \(\mathbb{T}\) and \(\mathbb{T}\)_{\text{A},\text{A}}\) as also \(\mathbb{T}\). This license has been borrowed from Prácrit prosody, by the rules of which a vowel is allowed to be sometimes short before any conjunct, or before the nasal: but instances of this license occur in classical poems with only four conjuncts as above mentioned; and, even there, emendations of the text have been proposed by criticks to ren let the verse conformable to the general laws of prosody. (See remarks in the Durghat'a vritte; on passages of Ma'Gha's poem and of the Cumára)

[†] This rule of profody is applicable to any verse of the tetrastich: but it is considered by writers on rhetorick inelegant to use the privilege in the uneven verses; and they thus restrict the rule to the close of the stanza and of its half, especially in the more rigid species of regular metre.

• 1. Gan'ach'handas or metre regulated by feet (mátrágan'a.) A'RYA' Or GA'T'HA'.

The metre, named A'rya, or, in Pracrit, Gaha, from the Sansente Gàthá, is measured by feet denominated gar'a, or mátragan'a, which are equivalent to two long syllables or to four short: it is described as a couplet, in which the first verse contains seven and half seet; and the fixth foot must consist of a long syllable between two short, or else of four short; while the odd feet (1st, 3d, 5th and 7th) must never be amphibrachys.* In the second verse of the couplet, the fixth foot (for here too it retains that name) confilts of a fingle short syllable. Consequently the proportion of fyllabick instants in the long and short verses is thirty to twenty-seven.† The same metre has, with some propriety, been described as a stanza of four verses: for it is subdivided by its pauses into four pádas, which have the usual privilege of giving to the last syllable, whether naturally long or short, the length required by the metre paule is commonly restricted to the close of the third foot; and the meafure is in this case denominated Pathyá: but, if the pause be placed otherwise in either yerse, or in both of them, the metre is named Vipula,

A PARTICULAR fort of this measure, deduced from either species above described, is called *Chapalá*; and the laws of its construction require, that the second and fourth seet should be amphibrachys; and that the first foot should be either a spondee or an anapæst; and the fifth,

^{*} If the rule be violated, the metre is named Gurvin'i; but this is reprobated by writers on profody.

t As. Res. Vol. II p. 390.

[‡] Pritta muchicali.

may be constructed according to these rigid rules: hence three varieties of this fort of metre.

The regular Aryá consists of alternate long and short verses: but, if the short verse precede the long one, the metre is called Udgiti. If the couplet consist of two long verses, it is named Giti; or of two short verses, Upagiti. Another fort of this metre is named Aryá, giti: it is constructed by completing the eighth foot of the regular Aryá,

This measure admits therefore of eighty principal variations; deducible from the nine forts abovementioned: for the pause may be placed at the close of the third stoot in either verse of each couplet, in both, or in neither; and either verse, both, or neither, may be constructed according to the strict rules of the Chapalá measure; and the verse may consist of seven and a half, or of eight seet; and may be arranged in couplets consisting of verses alternately long and short, or alternately short and long, or essentially song, or uniformly short.

THE A'ryá metre is very frequently employed by Indian poets; but works of great length in this measure are not common: it is oftener intermixed with verses of other kinds, though inflances do occur of its exclusive use: thus the first and sourth carries, and most part of the sd and 3d, in the poem entitled Nalódaya, and the entire work of Go-YERD'HANA, † are in the M'ryá metre. And so is the brief text of the

Tt may be varied by alternating a long and a short verse, or a short and a long one, or by making both verses long.

[†] Confisting of seven hundred (or with the introduction 755) stanzas of miscellaneous poetry; and entitled from the number of stanzas Sapta sati.

Sinchya philosophy of Carles, as taught by In WARAGRISHN'A; Pandthe copious treatife of aftronomy by BRANKEGUPTA. T.

THE Nalodaya abovementioned, which is ascribed to the celebrated poet Ca'Lida'sa, is a poem in four cantos, comprising 220 couplets or stanzas; I on the adventures of Nala and Damayanti: a story which is already known to the English reader. I have singular poem, thyme and alliteration are combined in the termination of the verses: for the three or four last syllables of each hemistick within the stanza are the same in found though different in scale. It is a series of puns on a pathetick subject.

It is supposed to have been written in emulations of a short poem (of 22 stansas) similarly constructed but with less repetitions of each shyme; and entitled from the words of the challenge with which is somelades, Chat's carpara.

आलंक्यचानुनृतिनः कर की वापेर्य भावानुनुक्त व निनाद्धानेः यके बम् जीयेयये न कविनाय मं कैः परेण महीवक्यमुद्द कंच टक्पेरेणं॥

THERET'S and touching water to lie speed from the hollotte pullipsed my hands. I swear by the loves of sprightly damfels, that I will carry water in a project gitches for any poet by whom I am surpassed in rhymes.

[•] Author of the Carica or metrical maxims of this philosophy. Surras, or aphorisms in prose, which are ascribed to Capita himself, are extant: but the work of Us' war a Crienn as in fludied as the text of the Sanc'bya (As. Res. Vol. VIII. p. 466.)

[†] Entitled Brahmesphul'a sidd'hanta: other treatiles, bearing the same or a similar title, are works of different authors.

[‡] Chiefly A'rya, with a few anapæstic stanzas (Tôt'aca), and a still smaller number of immbres and trochaics (Praman's and Saman's).

Translated by Mr. KINDERSLEY of Madras, from a tale in the provincial language.

However, the epick-poem of Ma's ma, which will be mentioned more particularly under the next head, contains a specimen of similar alliteration and showe; the last fourteen stanzas of the fixth canto, (deficiptive of the seasons,) being consensed with like terminations to each half of the stanza. Instances will also be cited from Bha'ravi's poem hereafter noticed.

The following example of a species of the Aryá metre is taken from the presence of the Malúdaya.

शिभुदं हुईई (8-दिक्ट). असिर्यमानिक्सिक्यिंगताः वर्गानीते। यस्य र्यानीत्रिक्सिक्यिंगताः वर्गानीते।

"THE king celebrated under the name of RA'MA; *exists; who is conversant with the fupreme ways of moral conduct; in whose family, exempt from calamity and enriched with the gems of the earth, dependants flourish." I. 5.

THE next is taken from DAMAYANTI's lamentation on finding herself deserted by her husband NALA. It is in the same species of metre.

at'ha vibhrántam vané cha dévyá, 'línám tanu-vrindé vyálínám tatin-dad'háné, tayá'spadě vyálínám tatin-dad'háné, tayá'spadě vyálínám.

27. Véga-balá 'pálitayá,
Vén'yá, Bhaimi yutá lalápá 'litayá.

"Nripa! fa-calápá 'fitayá
hatwá 'rin, bándhaván cilá 'páli tayá.

28. Sa cat'ham mána-vanánám,
Nyáyavid! ácharasi sévyamána-vanánám,
D'hrita-símá navánám,
Dáránám tyágam, anupamá! 'navanánám.

[•] RA'MA RA'JA, by whole command the poem was composed. So the commentators remark: but it remains uncertain who he was, or where he reigned.

29. Para-critamiciai twensit [tu'énsh]
Smaiami, tan na îmrito li me tattwena,
Do'sha-sametatwena
pradushaye na'ira sambhrame tha 'twena i [twe, ina's]**

त्वपदेषासीमामविद्याभीमिषदेकासीमाम्।
तर्वृद्धासीमा तिन्द्धानेतवास्पदेकासीमां ॥ ५६॥
वेगव तापासितयावेग्याभैमीयुना स सापासितया।
व्यस कसापासितयाद त्वारीन्वा स्ववान् किसापासितया॥ ३०॥
स कथंमा न वनानां स्वाय विदाय रसिसे स्वमान वनानां।।
धृतसीमा न वनानां दार्णात्याग मनुषमा न वनानाम्॥ ६५॥
प र कृतमेत लेनः सर्मित्वस्तृतासिमेतन्विन ॥ ६००॥
दे। व समेत लेन प्रदृष्येगायसं अमेतलीन ॥ ६००॥

THEN the princess wandered in the forest, an abode of serpents, crowded with trees which resonud with the sweet buzz of bees, the resort of flocks of birds. With her dark hair dishevelled through her haste, BHAIMS thus samented: "King! thou sayest foes, but desended thy kindred, with thy quiver and thy sword. Unrivalled in excellence and conversant with morality, how hast thou practised the desertion of a wife proud but left helpless in a forest; thus rendering thyself the limit of praise? but I consider this evil to be the act of another; and do not charge thee with it: I do not blame thee, my husband, as in fault for this terror." 3. 26—29.

In the passage here cited, some variations in the reading, and greater differences in the interpretation, occur: with which it is, however, unnecessary to detain the reader. After consulting feveral scholia, the interpretation, which appeared preferable, has been selected. The same mode will be followed in subsequent quotations from other poems.

II. Matrach'handas or metre regulated by quantity.

1. VAITA'LI'YA.

ANOTHER fort of metre, regulated by the proportion of mátrás or fyllabick inflants, is measured by the time of the fyllables exclusively;

without noticing, as in the Ganachhandas, the number of feet. It is therefore, denominated Mátráchhandas, and the chief metre of this kind is named Vaitáliya. It is a tetrastich or strophe of sour verses, the first and third containing the time of sourteen short syllables; and the second and sourth, sixteen. The laws of its construction impose that each verse shall end in a cretic and iambic; or else in a dactyl and spondee; or, by the addition of one long syllable to the regular Vaitáliya, in a cretic and bacchius the In regard to the remaining moments, which are six in the odd verses, and eight in the even verses of the strophe, it must be observed as a general rule, that neither the second and third, nor the fourth and sisth moments should be combined in the same long syllable; nor, in the second and sourth verses, should the sixth mátrá be combined with the seventh. That general rule however admits of exceptions; and the name of the metre varies accordingly.

ALTHOUGH the Vaitaliya regularly confist of alternate short and long werses, it may be varied by making the stanza consist either of sour short or sour long verses; admitting at the same time the exception just now hinted.

^{*} This variety of the metre is named A patalica.

[†] Thus augmented, the measure is called Aupach handasica: the whole of the last canto of Ma'GHA's epick poem hereafter mentioned is in this metre: and so is the first half of the 13th canto in BHA'RAVI'S Ciratarjuniya.

[‡] In the even verses of the strophe, if the 4th and 5th moments he combined in one long syllable, contrary to the general rule abovementioned, the metre is named Prachya writti: or, in the odd verses, if the 2d and 3d moments be so combined, the metre is denominated Udichya writti: or the rule may be violated in both instances, at the same time; and the measure then takes the name of Prawrittaca.

[¶] A tetrastich, consisting of four short verses of the fort called Pravrittaca, is named Charubasini: and one comprising four long verses of that description is termed Aparantica.

THE following is an example of a stanza composed in a species or this metre:

Vaita'liya (Pravrittaca).

Idam, Bharata-vans'a-bhúbhritám, s'ruyatám, s'ruti-manórafayanam, pavitram, ad'hicam, febhódayam, Vyáfa-vactra-cat'hitam, PRAVEITTACAM2

ब्द्रभरतंश्रम् भूतीय्यतं श्रीतमनारसायतम्, प्रिम्म प्रिकंसुभाद्रवंबास्यक्काल्बितंप्रयुक्तम्,

"LISTEN to this pure, suspicious and pleasing history of the kings of the race of BHASEATA as uttered from the mouth of VYA'SA."

Here, as in most of the examples given by the commentator He-LA(YUD)HA, and by other writers on prosody, the name of the metre occurs, but with a different acceptation. Where the stanza has the appearance of being a quotation (as in the present instance), it might be conjectured, that the denomination of the measure was originally assumed from the example; and this conjecture would appear probable, whereever the name (as is frequently the case,) has no radical meaning connected with the subject of metre. But, in many instances, the radical interpretation of the word is pertinent and has obviously suggested its application as a term of prosody; and the stanza, which is given as an example, must therefore have been purposely constructed to exhibit the metrs by words in which its denomination is included. This is confirmed by the circumstance of some of the words being incompatible with the measure which they designate: and in such cases the author apologizes on that ground for not exhibiting the name in the example. THE Vaitaliya metre has been employed by some of the most eminent poets: for instance, in the epick poem of MA'G'HA, the 16th canto of which is chiefly in this measure, as the 20th and last canto is in that species of it which is called Aupach'handasica.

The work here mentioned is an epick poem, the subject of which is the death of S'is'upa'la slain in war by Crishn'a: it is entitled S'is'upa'la-bad'ha, but is usually cited under the name of its author, whose defignation, with praises of his samily, appears in the concluding stanzas of the poem. Yet, if tradition may be trusted, Ma'g'ha, though expressly named as the author, was the patron, not the poet. As the subject is heroick, and even the unity of action well preserved, and the style of the composition elevated, this poem is entitled to the name of epick. But the Indian taste for descriptive poetry, and particularly for licentious description, has dissigured even this work, which is otherwise not undeserving of its high reputation. The two first cantos and the last eight are suitable to the design of the poem. But the intermediate ten, describing the journey of Crishn'a with a train of amorous damsels, from Dwaraca to Indraprast'ha, is misplaced, and in more than one respect exceptionable.

THE argument of the poem is as follows. In the first canto, NA'REDA, commissioned by Indra, visits Crishn'a and incites him to war with his cousin, but mortal enemy, S'is'upa'la king of the Chédis. In the second, Crishn'a consults with his uncle and brother, whether war should be immediately commenced, or he should first assist Yun'hish-t'hira in completing a solemn sacrifice which had been appointed by

him: the result of the consultation is in favor of the latter measure: and accordingly, in the 3d canto, Crishn's departs for Yud'hisht'hi-AA's capital. In the thirteenth he arrives and is welcomed by the PA'N'DAVAS. In the following canto, the facrifice is begun; and, in the next, Sisupa'la impatient of the divine honours paid to CRISHN'A retires with his partisans from the place of sacrifice. A negociation ensues; which is however ineffectual, and both armies prepare for action. This occupies two cantos. In the eighteenth both armies issue to the field of battle, and the conflict commences. The battle continues in the next canto, which describes the discomsture and slaughter of S'15'UPA'LA's army. In the last canto, the king, grown desperate, dares CRISHN's to the combat. They engage, and in the Indian manner fight with supernatural weapons. S'IS'UPA'LA assails his enemy with serpents, which the other destroys by means of gigantic cranes. The king has recourse to igneous arms, which CRISHN'A extinguishes by a neptunian weapon. The combat is prolonged with other miraculous arms, and finally CRISHNA flays S'IS'UPA'LA with an arrow.

THE following example is from a speech of S'is upala's embassador, in reply to a discourse of S'ATYACI brother of CRISHN'A, at an interview immediately preceding the battle.

विविनिक्तनबुद्धिदुविधःस्वयमेव स्वितंपृत्तरज्ञनः । यद्दीरितमध्यदः परेक्षैविजानातितद्भुतंमस्त् ॥ ३६ ॥ विद्रेरे यद पायमानानापरतः सस्धतेऽस्वावुधाः । नपरेपस्तिन चस्ततः प्रमिनोतेऽनुभवादृतेऽस्पधीः ॥ ४०॥ कुश् लंख जुनुभ्यमेव तस्च चनं क्ष स्वयस्म्यधामस्म् । खपदेश् प्रगःपरेष्वपिद्धविनाश्मिमुकेष्ठस्थवः॥ ४९॥ ख्ययंयुग प नायादि तंत्व रयासंत्व म बेतर चते । प्रविभ ज्यपृत्र ख्रानी वयास्त्र गुणंयिक्त ल तत्कि र व्यसि ॥ ४२॥ अवनाभिनिविष्ट बुद्ध सुन्न स्ति त्यर्थेक्त तं स्त्र भावितं । र विश्विष्ट ग्रीत्ये विषः कर सार्वक म सा करे विव ॥ ४३॥

"A low man, poor in understanding, does not perceive his own advantage: that he should not comprehend it when shown by others, is surprising. The wise, of themselves, know the approach of danger, or they put trust in others: but a foolish man does not believe information without personal experience. The proposal, which I made to thee, Crishn'a, was truly for thy benefit: the generous are ready to advise even their enemies bent on their destruction. Peace and war have been offered at the same time by me; judging their respective advantages, thou wilt choose between them. Yet good advice addressed to those whose understanding is astray, becomes vain, like the beams of the cold moon directed towards lakes eager for the warm rays of the sun." 16. 39—43.

ANOTHER passage of the same poem is here subjoined as a specimen of a different species of this metre. It is the opening of the last canto; where S'is'upa'la, impatient of the discomsiture of his troops and of those of his allies, dares Crishn'a to single combat,

Aupach'handasica.

मुखमुक्क सितिषिरे खमुक्कि दुरसूयुग भी वर्णद्धानः । स्मिता वितिषिक्रमा न मृष्यनातभी वक्कत चेदि ए ट्रमुपरिम् ॥

Muc'ham ullasita-tri-rec'ham uchchair bhidura-bhrú-yuga-bhishan'an dad'hánah, Samitáv iti vicramán amrīshyan, gatabhir, ákwata Chédirát Murárim.

Railing his head, and with a countenance terrible by its forked brow and wrinkled forehead, the king of the Chidis, impatient of the prowess thus displayed in battle, banished sear, and challenged the foe of Muza to the fight.' 20, 1.

A further example of the same metre is the second stanza of the following extract from the Cira'ta'rjuniya* of Bha'ravi. The remain-

^{*} ARJUNA and the mountaineer. *Cira'ta* is the name of a tribe of mountaineers censidered as barbarians.

ing stanzas exhibit variety of measure, with two instances of singular alliteration.

THE subject of that celebrated peom is ARJUNA'S obtaining celestial arms from S'IVA, INDRA and the rest of the gods, to be employed against DURYO'D'HANA. It is by a rigid observance of severe austerities in the first instance, and asterwards by his prowes, in a consist with S'IVA (in the disguise of a mountaineer), that ARJUNA prevails. This is the whole subject of the poem; which is ranked with the Cuma'ra and Raghu of Ca'lida'sa, the Naishad'hiya of Sriharsha, and Ma's Gha's epick poem, among the six excellent compositions in Sanscrit. The sixth is the Meghadúta also ascribed to Ca'lida'sa; and, on account of its excellence, admitted among the great poems (Maha'cavya), notwithstanding its brevity,

अनु परेण्ड्र साधिषतेर द्यापगि विकास निविद्यातमान सः । स जागरेष चनं प्रयमाद एन्मु खरता ब सरे जि विक् सति ॥ श्र्म् ॥ अ ल मे प्रविले कि तः प्रजानं स स्मासं ति ने स्स्। विस् नं । घन ब त्ये स इस् धेव कु वेन् दि म गोरेर चलाधिपः चिगेनिः ॥ १०॥ इस् दुर्धिंगमेः विषेदे बागमेः स्त तमस्त्रतरं वर्ण्ययंत्यंतरं । अमुमति विपने वेद हि ग्र्मा दिनेपुरु प्रमिवपरं प द्या यो तिल्परं ॥ १०॥ सूचिर प स्त्रवपुष्य ले ता गृही सूप सं सं क्लाली जी स प्रितिश्वा । नयति स्तत तम् सुकता मयं धृतिमती सूपर्शत मिपिस्त्रः । ॥ १०॥ स समे सहारा मयं वता यवता निधि कु स्त्रु का धिमर के पर मेः । अमुनाधनेः वितिशृता तिशृता स्मती त्यभाति जनती जाती। १०॥

THE statizas, which contain alliteration, are here copied in Roman characters.

18. Iha durad'higamaih Cinchid évágamaih Satatam afutaram Varn'ayantyantaram Amum ativipinam
Véda digvyápinam
Purusham iva param
Padmayónih param.
20. Sulabhaih sadá nayavatá 'yavatá'
'Nid'hi-guhyacád'hipa-ramaih paramaih
Amuná d'hanaih cshitibhrita 'tibhritá
Samatítya bháti jagatí jagatí,

THEN ARJUNA, admiring the mountain in filent aftonishment, was respectfully addressed by his conductor, Cuve'ra's attendant: for even loquacity is becoming in its season.'

"This mountain with its snowy peaks rending the cloudy sky in a thousand places, is, when viewed, able to remove at once the sins of man. An imperceptible something within it, the wise ever demonstrate to exist by proofs difficultly apprehended. But Brahma' alone thoroughly knows this vast and inaccessible mountain, as he alone knows the supreme soul. With its lakes overspread by the bloom of lotus, and overshadowed by arbours of creeping plants whose soliage and blossoms are enchanting, the pleasing scenery subdues the hearts of women, who maintained their steadiness of mind even in the company of a lover. By this happy and well governed mountain, the earth, filled with genus of easy acquisition and great excellence delightful to the god of riches, seems to surpass both rival worlds." 5. 16—29.

2. MATRA'-SAMACA.

The metre denominated Mátra'samaca confilts of four verses, each of which contains the quantity of fixteen short syllables; and in which the last syllable must be a long one; and the ninth syllabick moment must be in general detached from the eighth and tenth and be exhibited of course by a short syllable; if the twelfth be so likewise, the metre is distinguished by another name; or if the sisth and eighth remain short, the denomination is again changed. The last sort of metre is varied by deviating from the rule respecting the ninth moment; and another varie-

^{*} The first and fourth stanzas, in this quotation, are in the *Drutavilambita* metre, and the fifth in the *Pramita'ethara'*; which will be both noticed under a subsequent head. The third is in an uncommon measure named *Chandrica'* or *Cshama'*.

ty exhibits the fifth, eighth and twelch moments by short syllables. These sive varieties of the metre called Mátrásamaca may be variously combined in the same stanza; and in that case the measure is denominated Pádáculaca: a name, which is applied with greater latitude in Prácrit prosody, to denote a tetrastich wherein each verse contains sixteen moments, without any other restriction as to the number and place of the long and short syllables.

A POEM inserted in the first volume of Asiatic Researches + is a specimen of the variety, which this fort of metre admits. In a collection of tales entitled Vétála panchavins'ati, the author S'IVADA'SA has quoted several stanzas of that poem intermixed with others, in which the measure is still more varied: and I may here remark, that the introduction of rhyme into Sanscrit verse is not peculiar to this anapæstick metre: JAYADE'VA has adopted it with success in several other sorts of lyrick measure; and it is frequent in Sanscrit poetry composed in any species of Prácrit metre.

3. GÎTYA'RYA'.

ANOTHER species of metre regulated by quantity is named Gityarya.

Like the preceding, it is a tetrastich in which each verse consists of sixteen matras or moments; but all expressed by short syllables. In other words the stanza contains sixty-four short syllables distributed into four

^{*} The names of these sour varieties are 1st, Vána vásicá, which exhibits the 9th and 12th moments by short syllables, and 15th and 16th by a long one: the rest being optional. 2dly, Chitrá exhibiting the 5th, 8th and 9th by short syllables, the 15th and 16th by a long one. 3dly, Upachitrá, the 5th, 8th short; 9th and 16th long; also 15th and 16th long. 4thly, Visioca; 5th, 8th and 12th short; 15th and 16th long; and the rest indeterminate.

¹ Page 45.

werses. From the mixture of verses of this description, with others confishing exclusively of long syllables, arises another metre distinguished into two sorts according as the first couplet in the stanza consists of short syllables and the second of long; or, conversely, the first long, and the second short. The Gityárya may be further varied by making the last syllable of each couplet long, and all the rest short; at the same time reducing both couplets to twenty-nine moments, or the first only to that measure; and the second to thirty-one: or the first couplet to thirty, while the second contains thirty-two.

4. Prácrit measures.

The foregoing are all comprehended under the general designation of Játi: and besides these, which are noticed in treatises on Sanscrit prosody, other kinds, belonging to the class of metre regulated by quantity, are specified by writers on Frácrit prosody. They enumerate no less than forty-two kinds, some of which comprehend many species and varieties. The most remarkable, including some of those already described as belonging to Sanscrit prosody, are the following, of which instances are frequent in Prácrit, and which are also sometimes employed in Sanscrit poetry.

A STANZA of four verses, containing alternately thirteen and eleven moments (and scanned 6+4+3 and 6+4+1) is named either Dôhâ,‡

The mixed metre, in which one couplet of the stanza contains short syllables, and the other long, is termed Sic'ha or Chù'da: if the first couplet contain the short syllables, it is denominated Jyôtish; but is called Saumya, or Anangacrid'a, when the first couplet consists of long syllables.

A This metre, concerning which authorities disagree, is called Chu'dica or Chulica; or according to the Vritta Ratnacara, Attruchira.

t Corruptly Dibra.

(S. Dwipat'há) or Sórut'thá (S. Saurásht'ra), according as the long verse precedes the short one, or the contrary. This metre, of which no less than twenty three species bear distinct names, (from 48 short syllables to 23 long and 2 short,) is very commonly used in Hindi poetry. As an instance of it, the work of Biha'rila'l may be mentioned, which consists of seven hundred couplets (sat saï) all in this measure. It is a collection of descriptive poetry; of which Crishn'a, sporting with Ra'd'ha' and the Gópis, is the hero. The sollowing example is from that celebrated author.

Macarácrita Gópála cé
Cun'd'ala jhalacata cána.
D'haíyó manó hiya ga'd'ha famara:
D''yód''hí lafata nifána.

मनगृह्णनगे।पास्नेनुंडसम्स्सनननान। धस्यामना स्थिगण समर्ख्याणीसस्मनिसान॥

THE ? 114' in Chaped ring, which glutters in Go'PA'LA's ear, may be taken for the symbol of cupid suspended at the gate, while the god is lodged in his heart.'

To understand this stanza, it must be remarked, that the symbol of the Indian Cupid is the aquatick animal named Macara: (which has in the Ilindu Zodiack the place of Capricorn). It is here translated dolphin, without however supposing either the deliverer of Arion, or any species of dolphin (as the term is appropriated in systems of natural history), to be meant.

THE Gát'há or Gáhá has been already noticed as a name of the A'ryá measure in Prácrit prosody. Including under this as a general designation the seven species of it, with all their numerous varieties, it is no uncommon metre in Prácrit poetry. A collection of amatory verses

afcribed to the famous monarch S'A'EIVA'HANA, comprising seven hundred stanzas* and purporting to be a selection from many thousands by the same author, is exclusively in metre of this kind. The introductory verse intimates, that

"Seven hundred couplets (gábás) are here selected out of ten millions of elegant couplets composed by the poet Hr'LA."

HA'LA is a known title of SA'LIVA'HANA, and is so explained both here and in a subsequent passage by the scholiast GANGA'D'HARA BHAT'T'A. It is not, however, probable, that he really composed those verses; and it would be perhaps too much to conjecture, that the true author of them was patronised by that monarch whose existence as an *Indian* sovereign has been brought in doubt.

The metre called Maháráshtra (in Prácrit, Marahat't'á) is a tetrastich; of which each verse contains 29 mátrás, scanned by one soot of 6 and sive of 4; with a terminating trochee. It has pauses at the 28th and 29th mátrás. This measure is evidently denominated from the country, which gives name to the Marahattá nation; as another species, beforementioned, takes its designation from Sauráshtra or Sóratt'ha.† The circumstance is remarkable.

ANOTHER tetrastich, which it is requisite to notice, is denominated Rôlá. Each verse contains 24 mátrás: and this species of metre admits

[·] From their number, entitled Sat sai.

[†] The peninsular imposes the gulfs of Cambay and Cutch. The name remains, but the boundaries of the province are more restricted than in ancient times. It still, however, includes the remains of Caishna's city of Dwa'rea'; the celebrated temple of Somana't' ha so frequently plundered by the Muhamedans; and the mountain of Girana'ra held sacred by the Jainas no less than by the followers of the Vida.

twelve varieties, from 24 short syllables to 11 long and two short, bearing distinct names.

In the setraftich, each verse contains 24 moments (scanned 2+ five times 4+2, or else 6+ four times 4+2) with a pause at the 11th moment; and each verse of the couplet contains 28 moments, with a pause at the 15th. The varieties are extremely numerous, according to the number and—the places of the long and short syllables. No sewer than forty-five variations of the tetrastich, and seventy one of the whole stanza, have separate names. They are distinguished by the number of short and long syllables (from 152 short to 70 long and 12 short in the whole stanza, or from 96 short to 44 long and 8 short in the tetrastich). The following example is extracted from the Pingala-vriti.

Ch'happäá or Shat'padica.

Pind'häu di d'ha san'n'aha; baha uppara pac'he'hara das, Band'hu samadi, ran'a d'halifu Sami Hammira baina lai, U duu n aha; paha bhamiu; c'haga riu sisa hi jhalifu. Pac'he'hara pac'he'hara, 't'hélli pélli, pabbah appariu. Hammira cajja Jajjalla bhan'a, cohan'ala mahu maha jalifu. Sulatana sisa carabala dai, téjji calévara, dia chalifu.

पिंधडिद्षस्यास्वास्डप्यरपस्यरद्र।
बंधुसमिद्रप्यभ्र संज्ञामिस्मीरवञ्ज्ञणस्र्॥
खडुडप्रस्पम्यस्मान्डस्यारिडसीस्स्मित्स्छ।
यस्वरपस्यरदेक्षिपेक्षिपद्वञञ्ज्यारङ॥
स्मीरवज्जञञ्जक्षभणकेल्लसम्जनस्य सङ्ग्रस्

- Jájjana, general of Hammira's forces, taking the field against the Muhammedan emperor, says vauntingly-

"I PUT on firong armour, placing barbs on my horfe, and taking leave of kinfmen, I haften to the war. Having received the commands of my mafter Hammira, I fly through the fky; I purfue the road; I flourish my scimitar on the head of the foe. Amid the buffle of horse and foot I scale mountains. In Hammira's cause, Jajjala declares, The fire of wrath burns within me; laying my sword on the head of the Sultan, and abandoning this corporeal frame, I ascend to heaven."

The emperor, whose death was thus vainly promised to Hammira, by his braggart general, must have been Sulta'n Muhammed Khu'ni, with whom he is stated to have been contemporary; and who reigned from A. D. 1325 to 1351. Hammira was sovereign of Sácambhari, which, with unseigned deserence for the opinion of Captain Wilford on a geographical question, I still think to be Sámbher: † and for this simple reason; that the culinary salt, brought from the lakes of Sámbher, is named in Sanscrit, Sácambharíya lavana, answering to the Hindi Sambher läun. It is, however, proper to remark that maps exhibit a place of the name of Sambhere between Ujjayaní and Indor.

THE Utcach'ha' is a stanza of six verses, each comprising eleven moments (scanned 4+4+3). It admits eight species from 65 short syllables to 28 long and 10 short.

THE Cundalica' is composed of one stanza of the metre named Doha's, followed by another in the measure called Róla'. The entire stanza consequently comprises eight verses. In this species of metre, rhyme and alliteration are so appropriate ornaments, that it admits the repetition of

^{*} As. Res. Vol. IX p 192.

t As. Res. Vol. VII. p. 511.

a complete bemilish or even an entire werle: as in the following example extracted from the Pingala-prists.

Gun'a clica or Cun'd'alia.

D'hélfá mária D'hilli maha, much'hia Méch'ha farira, Pura Jájjalla mela bara, chelia bára Hammira. Chalis bára Jammira, phá bhara méini dampai. Diga maga n'aha and'hára d'húli fúraha raha j'hampai. Diga maga n'aha and'hára ánu. C'hurafanaca élla Davali, damusi vipac'he'ha a máru D'hilli maha d'héllá.

शिक्ष्मामारिअशिक्ष्मम्बनुष्ठिअमेष्टस्रिद्रश्च पुरज्ञज्ञामस्मवर्गित्अग्नेर्द्रश्चिक्षप्द्रं वस्तिअग्नेर्द्यमीर्गाअभरमेड्शिक्षप्द्रं दिगमगण्डअंधारधृतिस्तर्वरव्यक्षपंपद्र्॥ दिगमगण्डअंधारआणुषुरसाणकआस्मा। द्विस्मिक्षिण्यक्षमाक्ष्विसीमद्विस्ता॥

"HAVING made the barbarians faint at the found of the drum beaten in the midft of D'bill, and preceded by Jassala eminent above athlets, the here Hammina advances; and as the here Hammina advances, the earth trembles under his feet. The cloud of duft, raifed by the march of his multitudes, obscures the chariot of the sun. Darkness spreads with the march of his multitudes. The hosteges of the Kharasanian are sain; the social saughtered; and the drum is beat-in the midst of D'bills."

A STANZA of nine verses, composed of one of five with a tetrastich of the metre called Dhá subjoined to it, is denominated Rad'dhá. Here the stanza of five contains three verses of 15 moments each, with two of 12 and 11 interposed. The distribution of the seet, together with a restriction as to the terminating one, varies in each verse: and a difference in the regulation of the seet gives rise to six varieties which have distinct appellations.

The Children and (Pr. Chaupais or Chaupais) is a standa of sixteen weres distributed into sour tetrastichs, in which each verse contains to moments (seanned seven times 4+2), and terminated by a long syllable. This measure is of very frequent use in the poetry of the modern languages. The Râmáyan's of Tulas's Da'sa, in seven cantos, a poem held in great estimation by Hindus of the middle tribes, is composed chiefly in a similar metre under the same name (Chaupai) and containing the same number of verses (16) in the stanza. It sterributes with the Dôhá; and very rarely gives place in that poem to any other metre.

In this metre the stanza contains the greatest number of verses of any admitted into Pracest prosody. The other measures regulated by quantity are tetrassicles, except the Ghart's and certain other couplets, noticed at the foot of the page: fome of which might have been ranked with more propriety under the next head of uniform metre.

One other measure which is placed in this class, but which belongs rather to another, remains to be noticed. It is an irregular stanza of four verses containing alternately 17 and 18 syllables with no regulation of their length or of the quantity of the verse or stanza. It is termed Gandha, or in Pracrit Gandhána.

THE rest of the Pracrit metres may be sought in the fynopsical tables subjoined to this essay.

[•] The Ghatté and Ghatténanda, confliting of two verses of 3t mátrés each. In the first species the pauses are after the 10th and 18th mátrés; in the other after the 18th and 18th. There is also a flight difference in the distribution of the feet (7 times 4+3 short; and 6+3 times 3+5 +6+3+3 short.) The Dwipadice has in each verse 28 matras (6+sive times 4+2 long). The Sic'ha' containing the like number, the C'hanja' with 41 ma'tra's to the verse, and the Ma'la' with 45, are coupless: but the fact are strictly regulated.

The present may be a proper place for ribilizing electric of poetry, which has been even more cultivated in the Pracrit and provincial languages than in Sanscrit. I allude to the erotick poetry of the Hindus.

On its general character, I shall briefly observe, that it is free from the grievous desects of the Hindi poems composed in the style and metre of Persian verse; but it wants elevation of sentiment and simplicity of diction. The passion, which it pictures, is sensual, but the language refined; with some tenderness in the expression and in the thoughts. Among the most celebrated poems in this class, may be mentioned, the Chaura panchasica comprising sitty stanzas by Chaura, and Amaru sataca containing twice that number by Amaru. The sirst is supposed to be uttered by the poet Chaura, who, being detected in an intrigue with a king's daughter, and condemned to death, triumphs in the recollection of his successful love. The other, which is a collection of unconnected stanzas on amatory topicks, is reputed to be the work of the great Sancara ach'arva; composed by him in his youth before he devoted himself to the study of theology:

Some of the commentators on this poem-have attempted to explain it in a devout and mystical sense, on the same principle upon which JAY-ADE'VA's lyrick poems are interpreted as bearing a religious meaning. The interpretation, however, is too strained to be admitted; and though JAYADE'VA's intention may have been devout, and his meaning spiritual; AMARU, or whoever was the true author of the work bearing this name, is clearly the lover of an earthly mistress.

THE most singular compositions in this class of poetry, and her which chiefly a notice of it has been here introduced, are those in which the subject is treated with the studied arrangement and formal precision of the schools. I shall instance the Rasamanjars of BHA'NUDATTA MIS'RA' in Sanscrit, and the works of MATIRA'MA and SUNDARA in Hinds. Here various descriptions of lovers and mistresses distinguished by temper, age and circumstances, are systematically classed and logically defined, with the seriousness and elaborate precision of scholastick writers. As ridicule was not intended, these poems are not humorous but trisling: and I should not have dwelt on the subject, if their number, and the recurrence of them in different languages of India, were not evidence that the national taste is consulted in such compositions.

III. Varn'a writta; metre regulated by the number of syllables.

The next fost of metre is that, which is measured by the number of syllables: it is denominated Acsharach'handas or Varn'a vritta in contradistinction to the proceeding kinds which are regulated by quantity; and it may be subdivided into three forts, according as the verses, composing the stanza, are all similar, or the alternate alike, or all dissimilar.

This also is a stanza of four verses (pádas), each containing an equal number of syllables, the length of which is regulated by special rules. The number of syllables varies from twenty-four, to a hundred and four, in each strophe: that is, from fix to twenty-fix in each verse. There are indeed names in *Prácrit* profedy for verses from one to five syllables, and instances of Sanscrit verse containing a higher number than above stated; viz. from twenty-seven, to one less than a thousand. But these constitute distinct classes of metre. Between the limits sirst

initial dails, swenty-one kinds succive different appollations appropriated to the number of lyllables contained in the stansa.

EACH kind comprehends a great variety of possible metres according to the different modes in which long and short syllables, as well as pauses, may be diffributed: and since the sour quarters of each stanzamay be either all alike, or only the alternate similar, or all different, the variety of possible metres is almost infinite. Pingala, however, gives directions for computing the mumber of species, and for finding their places, or that of any single one, in a regular enumeration of them, or conversely the metre of any species of which the place is assigned: and rules have been given even for calculating the space which would be requisite for writing down all the various species.

[.] Viz. 64 uniform and 4032 half equal.

TViz. 64 uniform; 4032 half equal; and Y6,773, rate unequal or diffimilar.

treatife of arithmetick and geometry by BHA'SCARA. This truly learned aftronomer was also a poet; and his mathematical works are composed in highly possibled metre. If the Health figure to himself Excuss in including the increase of Heratian metre, he will form an adequate notion of this incongruity.

The different forts, which have been used by poets, are few in comparison with the vast multitude of possible metres. Still they are too numerous to be all described as suit length. I shall therefore salect, in specimens, those fores of metre, which are most frequently employed, or which require particular notice; referring for the rest to the subjointed tables in which the various kinds are successfully exhibited by single setters descriptive of seet scanned in the Indian and in the Satin made.

In the best Sauscrit poems, an those of Calinda's a, Bun'navi, S'n' manner, Ma'ona dec. the poet tisually adheren to the same, or at least to similar metre, throughout the whole of one canto; becopting towards the close of it, where the metre is usually changed in the last two or three sanzas, apparently with the intention of readering the conclusion more impressive: Sometimes indeed; the metre is more irregular, being changed several times within the same canto, or even altering with every stanza.

THE Rághava pândavíya, by Chwin A'ra, is an inflance of a complete poem, every canto of which exhibits variety of metre. This extraordinary poem is composed with studied ambiguity; fo that it may, at the option of the resider, be interpreted as relating the history of Ra'ma and other descendants of Das'a rat'ha, or that of Yun'mishting and other form of Pain put. The example of this singular Ryle of composition had been selven selvent in the story of Varavadatia.

Writers on rhetorick (as the author of the Sabitya Harpan'a and others) lay it down as a maxim, that the metre and five should in general be uniform in each cause to but they salmit occasional deviations in regard to the metre.

t. So the author has called himselfer,

BA'NABHA'TTA in his unfinished work entitled Cádambart; as is hinted by CAVIRA'JA. Both these works, which like the Datacundre of DANDI, are prose compositions in poetical language and therefore reckoned among poems, do indeed schlibit continual instances of terms and phrases employed in a double sense; but not like the Rághava pándavíya, two distinct stories told in the same words.

The following pallage will lufficiently explain the manner in which the poem is composed. The first stanzaris of the mixed fort of metre named Upajási, which will be immediately described; the second is in one of the measures composing it, termed Upandravajna.

"मानुः त्रियं संदेशदिष्युं मत्या श्वाख्यः स्ट्रास्त्रस्य संविष्ठं तेः ने ' असे प्रजायासनद स्थावा र जस्यक्षेत्रम् मसः प्रमादं ॥ ५० वे। विवि व वीर्यस्यदि वंग तस्यवितुः स्य ज्याप्ति प्रस्तुवाक्येः। प्रीमयोध्योधृत्य क्रमद्रास्य स्तिरोधं स्टब्स्स्य स्ट्रास्ट्रस्य स्था

50 Mátuh s riyan fandad'had Indumatyáh, S'lághyah s'aratcála iyó'du panétéh, Afau, prajápálápadaosha bhàvád, Ajafya chacré manafah pramódam.
51. Vichitravíryafya divan gatafya Pituh fa rájyom patipadya bályé panétéhya hangatafya.
Purim Ayódhyám, Dhritráshya hangatagy.
Sa Hastifóbham fuc'ham ad'hyunafa.

If AVINO the beauty of this mother INDUMATE, and minimable like the dewy featen, when it enjoys the beauty of the flam, he (DAMARATHA) made glad the mind of AJA by his fkill in the protection of the people. Succeeding in youth entire classes of his variously valiable father, who departed for heaven, he dwelt happily in the classes Ayad by which was aderned with elephants and upheld the professity of his realm."

OTHERWISE interpreted the fame pallage fignifics

^{*} AJA was father, and INDUMATI mother, of DA'SARRY'HA.

the beauty of the state and of the moon, he (Pa'mou) made glad the heart of the making glad, by his skill in the protection of creatures. Succeeding in youth to the kingdom of his father Vichitranvinus, who departed for heaven, he dwelt happily in the peaceful city of Mahillandiana suspiciously inhabited by Draitana's at Tan." 5- 50. and 51.

To proceed with the subject. In general the different sorts of verse, which are contained in the subjoined syneptical table of uniform metre, are used singly, and the stanza is consequently regular: but some of the species, differing little from each other, are intermixed. Thus the Indravojra, measured by a dastyl between two epitrites (3th and 2d), and the Upéndravojra, which begins with a disambus, may be mixed in the same stanza. This fort of mixt metre (an example of which has been just now exhibited) is denominated Upajáti: it of course admits four-teen variations; or, with the regular stanzas, sixteen. The relief which it affords from the rigorous laws of the uniform stanza, render it a favorite metre with the best poets. It has been much employed by Ca'lida'sa, in whose poem on the birth and marriage of Pa'avati, three out of the seven cantos, which compose it, are in this metre: as are eight out of nineteen in his heroick poem on the glory of the race of Rachu.

The last mentioned work, which is entitled Raghuvans'a, and is among the most admired compositions in the Sanscrit tongue, contains the history of Ra'ma and of his predecessors and successors from Dies'pa father of Raghu, to 'Agnivern'a a slothful prince who was succeeded

[·] VICHITRAVÍRYA was husband of Pa'ndu's mother.

[†] They have distinct names, which are enumerated in the Ch'handimartan'da, cited by the commentator on the Vritta Retnacara; as Maniprabba, Cantimeti &c.



by his widow and posthumous son. The first eight cantos relate chieff y to RAGHU, with whose history that of his father Dili'PA, and of his son AJA, is nearly connected. The next eight concern RA'MA, whose story is in like manner intimately connected with that of his father DAS'ARATHA and of his sons Cus'A and LAVA. The three concluding cantos regard the descendants of Cus'A, from ATIT'HI to AGNIVERN'A, both of whom are noticed at considerable length; each being the subject of a single canto, in which their characters are strongly contrasted; while the intermediate princes, to the number of twenty, are crowded into the intervening canto, which is little else than a 'dry genealogy.

THE adventures of RAMA are too well known to require any detailed notice in this place. The poet has felected the chief circumstances of his story, and narrates them nearly as they are told in the mythological poems and theogonies; but with far greater poetical embellishments. Indeed the general style of the poems esteemed facred, (not excepting from this censure the Rámáyan'a of VA'LMI'CI,) is flat, diffuse, and no less deficient in ornament than abundant in repetitions: and it is for this reason, that examples have been selected, for the present essay, exclusively from the celebrated prophane poems. Ra'ma's achievements have been fung by the prophane as frequently as by the facred poets. His story occupies a considerable place in many of the Purán'as, and is the sole object of VA'LMic I's poem, and of another entitled Ad'hyátma Rámáyan'a, which is ascribed to VyA'SA. A fragment of a Rámáyan'a attributed to BAUD'HA'YANA is current in the southern part of the Indian peninsula; and the great philosophical poem, usually cited under the title of Yoga va i.h 'h 1, is a part of a Rámáyan'a, compriling the education of the devout hero. Among prophane poems on the same subject, the Raghuvans's and Bhat's'icàvya, with the Rág'hava pándavíya before mentioned, are the most esteemed in Sanscrit, as the Rámáyan's of Tulas's Da's a and Rámachandricá of Ce's avada's a are in Hindí. The minor poets, who have employed themselves on the same topick, both in Sanscrit and in the Prácrit and provincial dialects, are by far too numerous to be here specified.

THE other poem of CA'LIDA'SA abovementioned, though entitled Cumara sambhava or origin of Cuma'ra (who is ion of Pa'rvati), closes
with Pa'rvati's wedding. It has the appearance of being incomplete;
and a tradition runs, that it originally confisted of twenty-two books.
However, it relates the birth of the goddels as daughter of mount
Hima'laya; and celebrates the religious aufterities by which she gained
S'IVA for her husband; after Candarpa, or Cupid, had failed in inspiring S'IVA with a passion for her, and had perished (for the time) by the
siery wrath of the god. The personages, not excepting her father, the
snowy mountain, are described with human manners and the human
sform, and with an exact observance of Indian costume.

THE following stanza from a poem in mixed language, upon the same subject (the birth of CUMA'RA), is selected as a surther example of Upajáti metre, and as a specimen of the manner in which Sanser is and Prácrit are sometimes intermixed. It is quoted for that purpose in the Pingala-vritti.

बालः कुमारः संक मुंडधारी उपाअहीणा कमु एक्नणरी । अव्णिशंबाइ विवंभिवारी गतिभैविची किलका कुमारी॥

Bálah Cumárah; sa ch'ha-mun'da-d'hárs. Upáä-híná hamu écca-n árs. Ahar-n is'am c'háï visham bhic'hárs. Gatir bhavitrs cila cá hamárs.

DE'VI', grieving over her infant fon CUMA'RA or SCANDA, faye,

of The child is an infant, but he has fix mouths [to be fed]: I am a helpless, folitary female: night and day my mendicant husband swallows poison; what resource is there, alas, for me?"

An instance of the same measure used in the Marahat's (Maharash. tra) language is quoted by the commentator on the Vritta-retnácara. It appears, however, from the rhymes, that the verse is there subdivided by a pause after the 5th syllable.

The variety of the Upajáti metre is increased by the further mixture of two forts of iambic measure named Vans'ast'ha and Indravans'd. The first is composed of a choriambus between two disambic in the second, the first distyllable is a spondee instead of an iambic. Instances of this mixt metre occur in Valenci's Rámáyan'a,* in the Srí bhágavata: Purána+ and in a metaphysical and theological dramagaratical Prais bód'ha Chandródaya ‡

The following example from the drama now mentioned, exhibits the combination of those four forts of metre in a single stanza.

Vidvá-prabódhódaya-janma-bhúmir, Váránass mucti-purs nirátyayá Atah culóchch'héda-vid'him vid'hitsur nivasstum atréch'hati nityam éva sah.

विद्याप्रवेशिद्यजन्मभूमिशेषणसीमृक्तिप्रीनिरत्यया । अतःक्लोच्छेदविधिविधिक्तुनिवस्तुमचेर्कानित्यमेवसः॥

" Vārān'asi, the indestructible city of eternal salvation, is the native land of science and intellect: hence, one desirous of observing the precepts by which a continuance of samily is cut off, [and final beautude obtained], is solicitous to dwell there continually."

^{*} In a passage of the Sundara Cánda.

[†] Book toth.

[‡] Among the persons of this drama are the passions and vices (pride, anger, avarice &c.) with the virtues, (as pity and patience;) and other abstract notions; some of which constitute very strange personifications. The author was Cassha'A Pandita.

The same term (Upsjáti), as descriptive of mixt metre, has been also applied to the intermixture of two spendaic measures named Vistorial and Salani: which are very similar, the first liaving an anapass, the other a cretic, between a dispondeus and ad epitrius, with a paule station fourth syllable. Analogous to the first of these are the Rathfiddata, and Swagata measured by an anapass preceded by two trachers, and sollowed in the one by two imbies; and in the other by an ionic. These and the preceding are metres in very common use with the best poets; and instances of them, will occur in subsequent extracts chosen for the sake of other measures with which they are joined.

The several sorts of metre above described are, like the two last, also employed separately: for instance the first cantos of the Naishadhiya of S'Ri'HARBHA, and Cirátárjuniya of BHA'RAVÍ, as well as that of the epick poem of MA'GHA, are in the sambic measure called Vans'ast'ha; which recurs again in other parts of the same poems: of pecially in the Ciráta, of which sour books out of eighteen are in this measure.

The first of the works just now mentioned is a poem in twenty-two cantos on the marriage of Nala king of Nishad'ha, and Damayantí daughter of Bhíma king of Viderbha. It is a favourite poem on a favourite subject: and though confessedly not free from faults, is by many esteemed the most beautiful composition in the Sanscrit language. The marriage of Nala and Damayantí, his loss of his kingdom by gaming, through the fraudulent devices of Cali disguised in the human form, his desertion of his wife and his transformation, her distresses, her discovery of him, and his respectation to his proper form and to his throne, are related in another poem already noticed under the title of

Nalódnya: their adventures likewise constitute an episode of the Mahá-bhárata, and are the subject of a novel in prose and verse, by Triuicrama bhat't'a, entitled Nalachampú + or Damayantí cat'há. Srihamindian taste, is very barren of incident. It brings the story no further than the marriage of Nala and Damayantí, and the description
of their mutual affection and happiness which continues notwithstanding
the machinations of Cali. The romantick and interesting adventures
subsequent to the marriages as told in the Nalódaya, are here wholly
omitted: while the poet, with a degree of licentiousness, which is but
too well accommodated to the taste of his countrymen, indulges in glowing descriptions of sensual love.

The following example of Vans'ast'ha metre is from the introduction of the Naishad'hiya. To render the author's meaning intelligible, it may be necessary to premise, that the mere celebrating of NALA and DAMAYANTI is reckoned sufficient to remove the taint of a sinsul age; and is so declared in a passage of the Mahábhárata.

Vans'ast'ha metre.

, Pavitram atrătanuté jagad yugé, smrštá, rasa-cshálanayéva yat, cat'há; Cat'ham na sá mad giram, ávilám api, swasžviním éva, pavitravishyati.

> पविचमचातन्ति जगद्भिने स्मृतार्स्ट्रास्तवेवयास्यः । कर्यनरा महिर्माविसामपि ससे विनीमेवपविचयित्।।

"How should a story, which, being remembered, purifies the world in the present age, as it were by an actual ablution, fail of purifying my voice, however faulty, when employed on this narration." 1. 3.

[•] From the 53d to the 79th chapters of the Vanaparva.

[†] A composition, in which profe and verse are intermixed, is called Champa.

In the following passage from Bha'ravi's Cirátárjuniya, the last stanza is an example of the Málini metre; and the preceding one, of the Pushpitágrá; which will be noticed further on: all the rest are in the Vans'ast'ha measure. It is the close of a reproachful speech of Drau-padí to her eldest husband Yud'hisht"hira, inciting him to break the compact with Duryód'hana, by which the Pa'ndavas had engaged to remain twelve years in exile.

इमा मस्बेर् नता वन्धियं विचिच क्र्याः खलु चिन्तुन्यः। विचिनायन्साभवदापदंपर्ग्र जिनेचेतः प्रस्भमेन धयः ॥ ३/७॥-पुर्धिक्र छ : श्यनं महाधनं विवे । भू दे युः लक्षिगी तिमक् से । अद भद्भीमधिशयासस्य लेजिहासिनिद्रामितिके शिवास्तैः॥ ३८॥ अनार्तवैामणिपीठशायिनावरम्बयद्राजशिरः सङ्गरङः । निबीट तस्ताचरणीवनेषुतेमृगदिजालूनशिखेषुविधिपाम् ॥ ३००॥ पुरापनीतंत्रपरामणीयकंदिजातिहे धेणयह तदन्यसा । त्रद्यातेवन्यफलाशिनःपरंपरेतिकार्द्धयश्चासम्बणुः॥ अक्षार् 'भू दिषित्रिमित्रायदियंदशाततःसम्लमुत्रा लयतीवभेमनः। परेर पर्ट्यासिनवीट्यसंपर् पर्भवा पुन्स बर्ध बमा रिनाम्॥ ४ ९॥ विद्यायशा निन्दपधा मतत्युनः प्रसीद्सन्धे दि वधाय विदिषाम्। बजिनश्च्नबध्यनिस्पृष्ःशमेनिसिद्धंमुनये। नभूभृतः ॥ ४६ ॥ परः सर्धामवतं यशेष्ठनाः सुद्ः सर्पा प्यनिकारमीदृशं । भवादृशास्त्रेट्धिकुर्वेतेपराझिरमया इनाइनामनस्त्रिता ॥ ४३॥ अवश्मामेवनिरस्विक्रमस्यय्ययेषिद्धस्यस्थमं। विद्यायस्त्रीयितस्त्रकार्मकं जटाधरः सन्जु क्रधी द्यावकं ॥ ४४ ॥ न समयपरि र इत्यंख्य ने निकृतियरे बुपरे बुधूरि धान्नः। अरिषु विवि जया थिनः श्चितीशा विद्धितिसे। पश्चिसन्धिद्वणानि ॥ ४५॥ विधिसमयनियागास् प्रिसंस्र जिल्लांशिवलव उपमगाधेम ग्रमापत्पयाधी । रिपुनिमिरमुदस्रोदीयमानंदिनादै।दिनहान मिबस्ड्यी कांसमन्दे तुभूयः ॥ ४०॥

" I do not comprehend this thy prudence; for opinions are indeed various: but anguith forces titelf an my mind, when confidering thy extreme diffrefs. Thou, who didft formerly repose on a costly couch, and wert wakened with auspicious praise and fong, now sleepest on the ground firewed with pungent graft, and are roused from the flumbers by the difinal howlings of strikels. Thy feet, which, refling on a toutsteel adorned with precious stones, were tinged by the dust of the blossoms in the chaplets worn by prostrate monarchs, now tread the wildernels where the tips of tharp graft are crupped by the seeth of flags. The person, O king, which somethy gained beauty by feeding on the blessed remnant of the feast given to holy men, now wastes with thy glory, while thou feedest on the fruits of the forest. That thou art reduced to this condition by the act of thy concrates, harrows up my foul. To the valiant, whose courage is unsubdued by the foe, missortune is a triumph. Relinquishing peace, O king, be [Rive and rouse thy energy, for the saughter of thy fues. Placid faints, not kings, attait persection, difarming their enemies by patience. If persons such as thee, whose honour is their wealth, who are leaders of the brave, submit to such insupportable disgrace, then is magnatizing destroyed without resource. If divested of courage, thou deem submission the means of balking sale, then quit thy bow, the symbol. of a fovereign, and, becoming a hermit, feed here with ablations the partifying flame. Adherence to the compact is not good for thee, valuant prince, while thy foes compass thy difgrace: for kings, ambitious of victory, scruple not the use of stratagem in treating with enemies. Thee, who by force of fate and time art now funk in the deep ocean of calamity, dull with diminished splendour, and flow to enterprise, may fortifine again attend, as thou rise? like the fun with the new born day, dispelling hoftile gloom." i. 37 .-- 46.

To return to the enumeration of analogous forts of metre. A true spondic metre, named Vidyunnálá, consisting of sour spondees, with a pause in the middle of the verse which virtually divides the tetrastich into a stanza of eight, is often mixed, as before observed, with the metre termed Gityáryá, containing the same quantity in a greater number of syllables.

OTHER measures also containing the same quantity, but in a greater number of syllables, occur among the species of unisorm metre. The subjoined note * exhibits several species, in which the verse is divided

^{*} Rucmavati or Champacamálá composed of alternate dactyls and spondoes; Mattá measured by three spondoes with sour short syllables before the last; Pan'ava containing a spondoe and

by the position of the pauses into two parts equal in quantity, and some of them equal in number of syllables. Further instances are also stated in the notes, of metre containing the same quantity similarly reducible to equal feet. Some of the species of metre, which contain a greater number of syllables, are reducible, in conformity with the position of their pauses, to this class.

ALL these varieties of metre have a great analogy to the Matrasamaca and other species before described, which similarly contain the quantity of 16 short syllables or 8 long; reducible to sour equal feet.

Among the kinds of metre described at the foot of the preceding paragraphs, the Dód'haca, Tótaca and Pramitacshará are the most common. A stanza in the anapæstic measure named Pramitacshará, in which each verse exhibits alliteration at its close, has been already quoted from the sistenation of the Ciratájuníya of Bha'raví. The specimen of anapæstic measure called Tótaca, which will be here cited from the close of the Nalódaya, is a further instance of alliteration introduced into every stanza of this singular poem.

Tót'AÇA.

Ari-sanhatir asya vanéshu s'uchám padam ápadam ápad ama' 'padama'. Suc'hadan cha yat'haiva jana'ya Harim yatam a'yatama'ya tam a'yata Ma'.

dactyl, and an anapæst and spondee; Bhramaravilasità measured by two spondees, sour short syllables and an anapæst; Jalidd'hatogatà composed of alternate amphibrachys and anapæsts: and several other species; as Cusuma vichitra, Manigun'a nicara, Cudmala danti, Lalana spec.

^{*} Dôd'haca composed of three dactyls and a spondee; Tôtaca containing four anapæsts; Pramitácshara, measured by three anapæsts with an amphibrachys for the second foot; Málá, a species of Chandravartá, and some others.

[†] Thus Mattacrida combines two simple kinds, the Vidyunmala and Chandravarta. So Craunchapada, is composed of two species beforementioned, the Champacamala and Manigun'a.

अरिसंस् तिरस्वने बुज्यु चापदमा पदमापदमापदमा । खबरं चयंग्रेवजनायस् रियतमायतमायतमायतमा ॥ ४६॥

"THE luckless and despondent croud of his foes found in the forests a calamitous place of surrow; and prosperity was constant to him, who gave happiness to a sincerely affectionate people, as the clings to HARI, who blesses the guileless "4.46.

Ir has been before faid, that, in several forts of metre, the pauses would justify the division of the stanza into a greater number of verses than four: and instances have been shown, where either the number of syllables, or the quantity, would be the same in each verse of a stanza of eight, twelve, or even sixteen short verses. In the following species of metre, the verses of the stanza, subdivided according to the pauses, are unequal.

THE Sárdúlavici dita, a very common metre, of which examples occur in the former volumes of Asiatick Researches, is a tetrastich in which the verse consists of nineteen syllables divided by the pause into portions of twelve and seven syllables respectively. The following instance of this metre is from the close of the first book of Ma'GHA's epick poem; where Na'reda, having delivered a message from Indra, inciting Crishn'a to war with Sis'ura'la, king of the Chédis, departs, leaving the hero highly incensed against his kinsman and enemy.

ओ मित्यु ऋवते। ऽयश् क्षिण्य तिव्या हृत्यव। चंनभस्त सिन्नुत्य तिनेपुरः स्तरम्ना विद्ये। श्रियं विस्ति । श्रृ चूणामनिशंदिना श्रिष्मुनः कुद्धस्य चैद्यं प्रतिको सीवभु कुटीक सेन्बद् नेके हुस्का यस्टरम् ॥ ७५ ॥

> O'm ityuctavato't'ha sa'rngin'a, iti Vyahrītya vachan, nabhas Tasminn utpatité purah sura-munav Indóh s'riyam vibhrati,

^{*} Vol. I. p. 279.

S'atrûn'a'm anis'am vinás'a pis'unah, Crudd'hafya Chaidyam prati, Vyómníva, bhrucutí ch'haléna, vadané Cétus' chacár'áspadam.

WHILE the divine fage, having delivered this discourse, ascended the sky, bearing on his front the radiance of the moon; the hero, armed with a bow, uttered an expression of assent; and the frown, which found place on his brow wreakful against the prince of the Chédis, was as a portent in the heavens, foretokening destruction of his foes.' I 75.

THE Mandácrántá, which is the metre in which the Még'hadúta is composed, has pauses subdividing each verse of seventeen syllables into three portions, containing sour, six and seven syllables respectively: viz. two spondees; two pyrrichii and an iambic; a cretic, trochee and spondee. The Harin's differs from the preceding in transposing the first and second portions of the verse and making the third consist of an anapæst between two iambics. An instance of it will be subsequently exhibited.

The example of the first mentioned metre, here inserted, is from the Mėgha-dūta. This elegant little poem, attributed as before observed to Ca'lida's a, and comprising no more than 116 stanzas, supposes a Yacsha or attendant of Cuve'ra to have been separated from a beloved wise by an imprecation of the god Cuve'ra, who was irritated by the negligence of the attendant in suffering the celestral garden to be trodden down by Indra's elephant. The distracted demigod, banished from heaven to the earth, where he takes his abode on a hill on which Ra'ma once sojourned, entreats a passing cloud to convey an affectionate message to his wife.

Called Rámagiri.

Mandácránta metre.

जानंदरीभुवनविदिने पुष्कर्वक्रेकानंजानामित्वं प्रकृतिपुर्वं कामरूपंगचानः।
नेनार्थितं त्वथिविधवशासूर्वन्धुर्गते।ऽस्याज्ञामोघा वर्मधिगुणे नाधमेलध्वकामा॥ ६
संतप्रानां त्व मसिश्र्णं तत्यथे।द्रियायाःसंदेशं मेहरधनपनि क्रोधिवश्विषितसः।
नन्नस्राने वस्तिर्स्कानामयक्षेत्र्यणंवाह्याञ्चानस्थितद्रशिरस्विद्रकाक्षेत्रस्थी॥ भा

- 6. Játam vansé, bhuvana-vidité, pulhcarávartacánám, Jánámi twám, pracriti-purulhan, cámarúpam, Maghónah. Téná' rt'hitwan, twayi, vid'hi-vaſa'd dúraband'hur, gató'ham. Yáchnyá móghá varam ad'higúné, n'ád'hamé labd'hacámá.
- 7. Santaptánán twam di s'aran'an; tat, payóda, priyáyáh Sandés'am mé hara, d'hanapati-cród'havis léshitalya.
 Gantavyá té vasatir Alacá náma vacshés'warán'am.
 Váhyódyána-st'hita-hara-s'iras'-chandricá-d'hauta-harmyá.

"I know thee forung from the celebrated race of diluvian clouds, a minister of INDRA, who dost assume any form at pleasure: to thee I become an humble suitor, being separated by the power of sate from my beloved spouse: a request preferred in vain to the noble is better than successful solicitation to the vile. Thou art the resuge of the instance: therefore do thou, O cloud, convey to my beloved a message from me who am banished by the wrath of the god of riches. Thou mits repair to Alaca the abode of the lord of Yacshas, a palace of which the walls are whitened by the moonbeams from the crescent on the head of S'IVA, who seems fixed in the grove without." 6 and 7.

THE Sicharin'i, also a common metre, distributes seventeen syllables into portions of fix and eleven; an iambic and two spondees in the one, and a tribrachys, anapæst, dactyl, and iambic in the other. This is the metre of the Ananda lahari, a hymn of which Sancara'cha'rya is the reputed author, and which is addressed to Siva, the Sacti or energy of Siva or Maha'de'va. It comprises a hundred stanzas of orthodox poetry held in great estimation by the devout followers of Sancara: the devotional poetry of the Hindus does not usually employ metre of so high an order.

EXAMPLES of this measure will be shown in a subsequent extract from a work of a very different kind: a drama, by BHAVABHUTI entitled Malati Malati Malati Malati

THE Máliní, confisting of fifteen syllables, places two tribrachys and a spondee in the one subdivided portion of the verse, and a cretic, trochee and spondee in the other. An instance of it occurs in a sormer extract from the Cirátárjuníya. The sollowing example of this metre is from the drama abovementioned. The passage is descriptive of a love-sick maid.

Máliní metre.

परिमृदि तमृत्रालीस्तान मङ्गं प्रवृत्तिः के बम,पेपरिवारप्रार्थनाभः क्रियास्त । कलयति विद्यांको निव्यालं कस्पलक्ष्मीमभिनवकरिटनास्त्रेटकानाः क्षेपसः ॥ २२ ॥

Parimridita-mrin'álí-mla'nam angam; pravrittih Cat'ham api paríva'ra-prárt'hanábhih criyáfu. Calayati cha himáns'ór nifhcalancasya lacfhmím. Abhinava-cari-danta-chch'héda-cántah capólah.

"Her person is weary like bruised threads of a lotos; fearcely can the earnest intreaties of her attendants incite her to any exertion: her cheek, pale as new wrought ivory, emulates the beauty of a spoiless moon." 2. 22.

THE Praharshini, containing thirteen syllables, separates a molossus, from two pyrrichii, as many trochees and a spondee. An example of it will be shown in a subsequent extract from Bhavabhu'ti's drama.

THE Ruchirá, with the same number of syllables, disjoins two iambics, from two pyrrichi, a trochee and cretic. The opening stanza of the Bhatticávya may serve as an instance of this metre. The poem bearing that title, is on the subject of the adventures of Ra'ma: it is comprised in 22 cantos. Being composed purposely for the practical illustration of grammar, it exhibits a studied variety of diction in which words anoma-

in the Sanscrit language. The author was BHARTRIHART: not, as might be supposed from the name, the celebrated brother of Vicrama'DITYA: but a grammarian and poet, who was son of S'RÍD'HARA.

SWA'MÍ, as we are informed by one of his scholiasts Vidya' vinóde.

Ruchirá metre.

अभ् ज्ञृया विबुधस्यः परं तपः ज्ञुनान्तिभाद श्रव्यक्ष्युदाह्नः । गुणैर्वरंभुव न चितं च्छ्लेनयं सनातनः पितरमुपाग मत्वयम् ॥ ९॥

Abhún nripó, vibud'ha-sac'hah, parantapah, s'rujanwitó, Das'arat'ha ityudahritah, Gunair varam, bhuvana-hita-chch'halena, yam Sanatanah pitaram upagamat swayam.

'He, whom the eternal chose for a father, that he might benefit the world [in a human-form,] was a king, a friend of the gods, a discomsiter of foes, and versed in science: his name was Das'arat'ha. He was a prince eminent for his virtues.' 1.1.

The Suvadaná distributes twenty syllables in three portions of the verse: one containing two spondees and a bacchius; the second sour short syllables and an anapæst; the third a spondee, pyrrichius, and iambic. The Sragdhará, a very common metre, differs from it, only in the third portion of the verse, which contains a trochee, spondee and bacchius: but here the number of syllables in every subdivision is equal; viz. seven. In all the other instances above described, the subdivisions of the regular verses were unequal.

THE following forts of metre, which are very usually employed, have no pauses but at the close of the verse. The Druta vilambitá contains in each verse two anapæsts preceded by three short syllables and a long one, and followed by a trochee. Instances of this measure have been already cited in an extract from the Cirátárjuníya. The Sragviní is

measured by a trochee, spondee and iambic repeated; as the Bhujangaprayátá is by a similar repetition of an iambic, trochee and spondee. Both forts of metre are of frequent occurrence in classick poems.

The Vasantalilaca, which consists of a spondee, iambic, tribrachys, dactyl, trochee and spondee, is one of the metres in most general use. It commonly occurs as a change from other metre. But the whole 5th canto of Ma'gha's poem is in this measure. The Chaura panchásicá, a short poem before described, is in the same metre, and so is a pathetick elegy on the death of a beloved wise which occurs in the Bhámaní vilása a collection of miscellaneous poetry by Jaganna'tha Pandita. ra'ja. It begins thus:

Vasantatilaca.

दैवेपराम्यः न शसिनिस्तजातेयाते पसंप्रतिदिवंप्रतिबन्धरः है। ससीमनः सम्वितासम्बन्धां सम्बन्धिः स्मितासम्बन्धिः।

"Since fate, alas! is become adverse, and the gem of kindred is departed towards heaven; to whom, O my soul, wilt thou tell thy grief? and who will appeale thy anguish with refreshing words?"

The following passage from some Hindi poem, is quoted in NA'RA'Y-AN'A BHAT'T'A'S commentary on the Vritta Retnacara as a specimen of this metre in the Canyacubja dialect.

क क् पेक् पजवर्तेतुन्दली खुक्काली केपका मंच्य क्रिक्कापेर द्वीडी ।" जीभेटिकैंबिर क्पीर नशास्त्रीरीवैभातिद्विपठई काविवात गापी ॥

Candarpa-rūpa jaba ten tumha linha, Crlihn'a! Locopacama hama hin, bahu-pira, ch'hori.

Jau bhet'icain viraha-pira nafau meri. Yain bhenti duti path'ai, cahi bata, Gopi.*

^{*} Short vowels, when final, are so faintly sounded, that they are usually omitted in writing the provincial languages of *India* in Roman character. But they have been here preserved at the close of words; being necessary, as in Sanscril, for correctly exhibiting the metre.



fuffering much anxiety. Relieve by thy presence the pain of separation which I endure. Such was the message, with which the Gori dispatched her emballadres."

V. Sloca or Vactra.

THE most common Sanscrit metre is the stanza of four verses containing eight fyllables each: and denominated from the name of the class, Anushtubb. Several species of it have been described. Two very simple kinds of it occur, confifting of lambic, or trochaic feet exclusively. The rest are included in one general designation, † But several analogous species are comprehended under the denomination of Vactra. Here the laws of the motre, leaving only the first and eighth syllables indeterminate, require either a bacchius or an amphibrachys f before the eighth syllable, and forbid an anipæst or tribrachys after the first; as also in the 2d and 4th verses of the stanza, an amphiguacer. A variety of this metre introduces a tribrachys before the 8th syllable in the aft and 3d verses, and a bacchius in the 2d and 4th. | And another fort, I which admits five varieties, requires the penultimate syllable to be short in the 2d and 4th verses; and introduces before the 8th syllable of the aft and 3d verses, a dactyl, anapæst, tribrachys, amphimacer or moloffus.

The first termed Pramani, the other Samani. Considered as a species of unitorm metre, the first is also named Nagaswarupini or Matallică; and the second is denominated Mallică. There is also a regular measure which alternates trochees and iambica, and is denominated Manatacacrisa: and another, named Chitrapada, consisting of two dactyls and a sponder.

[†] Vitána.

[‡] The metre is named Pathjá when an amphibrachys is introduced in the adams 4th vacfits, force fay in the 1st and 3d.

⁽ hapalá.

[¶] V pula.

Two metre, which is most in use, is one of the species now described, in which the number of syllables is determinate (viz. 8); but the quantity variable. Ca'lida's a appropriates to this metre the term Sloca (abbreviated from Anushtubh s'loca); and directs, that the fifth syllable of each verse be short; the sixth, long; and the seventh alternately long and short. The mythological poems under the title of Pura'n'a, and the metrical treatifes on law and other sciences, are almost entirely composed in this easy verse: with a sparing intermixture of other analogous forts, and with the still rarer introduction of other kinds of metre. The varieties of the Anushtubh S'loca, which most frequently occur, make the 5th, 6th and 7th syllables of the 1st and 3d verse all long or all short; or else the 5th long with 6th and 7th short. Thus varied, it is much used by the best poets. CA'LIDA'SA has employed it in the 2d and 6th cantos of his poem ensitted Cumara sambhava; and in the 1st, 4th and several others of the Raghuvans'a. The 2d and, 19th cantos of MA'G'HA's poem are in this metre, and so is the 11th of the Cirátárjuniya.

The examples, here subjoined, are from Ma'c'ha's poem. One passage is part of a speech of Balara'ma to Crishn'a, urging him to the
immediate commencement of hostilities against Sis'upa'la: the other
is extracted from Udd'hava's reply, dissuading Crishna from instant
war and advising his previous compliance with Yud'hisht'hira's invitation to assist at a solemn sacrifice which the king was on the point of
selebrating at Indiaprast'ha.

स्थानरीयान् य नृज्ञस्तिम सी।हिकार्व्यनः । स्थानामिनीमिने य सहजप्राहानायपि ॥ इत् ॥ क वक्षतीरिणास्थिनीमिनेणा स्थारिणा । क्यवाद्वप कारीहिकाक्षंत्रक्षणमेनवेशः ॥ ३७ ॥ क्याविष्ठक्षतन्त्रीदीक्षाणीवर्ताक्री । क्यवृक्षकामुनिक् अवस्ति न गैं। विश्वा । एक । विविध निर्मा ने निर्मा ने मिल्य ने मिल्य ने मिल्य निर्मा के निर्म के निर्मा के निर्म के निर्मा के निर्मा के निर्मा के निर्मा के निर्मा के निर्मा के

BALARA'MA Speaks, A proved enemy, and a tried friend, are most to be regarded; for they are known by their actions: others, prefumed to be so, from temper or affinity, may be found in the end to be friend or foe. Peace may be maintained with a natural enemy, who confers benefits; not with a prefumptive friend, who commits outrages; kindness, or injury, is the proper test of both. The king of the Chédis was offended, O HARI, by thy seizure of RUCMINI: for woman is the chief cause, that the tree of discord takes root. Whilst thou wert engaged in subduing the offspring of the earth, he belieged this city, as darkness encircles the skirts of Mēru, while the sun is remote. To hint, that he ravished the wife of VABHRU is enough: the narration of crimes is too difgustful. Thus aggrieved by thee, and having much injured us, the fon of S'RUTAS'RAVAS is an enemy demonstrated by deeds. The man, who is negligent, while an enraged foe meditates aggressions, sleeps in the wind with fire under his arm What forbearing man, who would cheerfully diffemble a flight and fingle injury, can patiently endure repeated wrongs. At other times, patience becomes a man; and pudency, a woman; but valour befits the infulted warriour; as modelty should be laid aside by a woman in the nuptial bed. Whoever lives, (may none fo live!) tortured by the pain of infults from his enemy; would that he had ne'er been born, vainly giving his mother anguish. Dust, which, kicked by the foot of the traveller, rifes and fettles on his head, is lefe contemptible other the deltard, who is contented under wrongs,' 2, 36-46.

UDD'HAVA in reply addressed to CRISHN'A.

स्थायनामिमरश्चमस्थायं स्वान्धवः। सहायमध्वर प्रवेश्वमेह जीविष्द्धिने॥ १०३ ॥ महान्यानिध्नुगृङ्किम जनानत्त्र तरोतिष। स्पानीध्रापय कार्थितिस्थवेत गिन्द्रणाः॥ १०४॥ विक् द्षियनान्यादेविनाः विक्रिकेदित् । स्वान्धृतिष्ठ साध्यास्त्रहृते।विमनीक्षाः ॥ १०५ ॥ मन्यतेऽरिषधः भैनान्धीनवेमह्गामिति । पृतेश्वास् मुजानिष्टिनिर्धि कर्तुमचं नव्यू ॥१०६॥ अनुनं रमवत्त नोमस्ति विद्वान्धि । शोभैवमन्द्र सुद्धक्षिताकोषिवर्णना ॥१०७॥ सहित्रेशनार्गांषि स्वोत्तान्त्र निर्वाने मुणानिष्टि । स्वान्धि स्वोत्तान्य स्वान्धि स्वोत्तान्य स्वान्धि स्वोत्तान्य स्वान्धि स्वानिक स्वानिक स्वानिक स्वान्धि स्वान्धि स्वानिक स

The full King, and his landment relying on the for an affociate caffable, of fulltaining the heaviest burden, are willing to undertake the task of a solemn sacrifice. Even to enemies, who court them, the magnanimous show kindness; as rivers convey to the ocean the rival torrents from the mountains. Violence, and against fees the the strong, is at length successful: but friends, once offended, are not easily reconciled even by compliances. Thou thinkest, that the slaughter of the foe will most gratify the inhabitants of heaven: but far better is it to present offerings, which are desired by the deities, who devour oblations. What the virtuous offer, under the name of ambrolia, in flames, whose tongues are holy prayers, was the splendid ornament of the ocean churned by the mountain Mandara. The promise made by thee to thy father's venerable fifter, to forgive ber son a hundred offences, should be strictly observed. Let the intellect of a good man be sharp without wounding; let his actions be vigorous, but conciliatory; let his mind be warm without inflaming: and let his word, when he speaks, be rigidly maintained. Before the appointed hour, even thou art not able to destroy the tyrant, on whom thyself conferred that boon; no more than the sun can prematurely close the day, which he himself enlightens. 2.103-110.

V. Compound metre.

Instances of compound metre have been already exhibited under the designation of Upajáti, consisting of two kinds of simple metre variously combined: two of these combinations are repeated under the head of half equal metre with the contrasted names of Ac'hyánací and Viparstác'hyánací. Other species of metre, belonging to this class, are in use among eminent poets: particularly the Pushpitagra', and Aparavastra'. In the first, both verses are terminated by two trochees and a spondee, and begin with sour short syllables, one verse interposing a pyrrichius, and the other a dastyl. In the next species, both verses are terminated by three iambics, and begin like the preceding with sour short syllables; but one verse interposes a single short syllable, and the other a trochee.

Examples of the first of these mixed measures are very common. One instance has been already exhibited in a quotation from the 14

whole tenth canto of the same poem, and the seventh of Ma's are in this mixt metre. The second is less common: but an instance occurs in the 18th canto of the Cira'ta'rjuniya.

The close of the 9th canto of Ca'lida's a's Raghuvans'a, exhibiting a variety of metre, in which two of the species now mentioned are included, is here cited for the sake of these and of other species which have been before described. The subject is Das'ARAT'HA's hunt, in which he sew the hermit's son: a story well known to the readers of the Ra'ma'yan'a.

इ निविद्यायाच करणीमात्मनः स्विताय सम्बन्ध धुरं न स्वितम् । परिवृद्धारु नमनुवन्धस्ववानुमवाजन्तर् च नुर्रे व कार्मिनी ॥ ७४ ॥ सुनिवित्तुसुम प्रवास स्टबांब्यांकातिन महै। विदिशिपकासनायाम् । जर्पनिर्तिवाद्यांव मूवकायि इसमिन परि च्च् वृक्षियामान् ॥ ७५ ॥ क विस्त ग जवू व कर्ण मन्त्रीः प्रदुष्ण स्थातिर्भिवेतीनित्रः । अर्मनम पुर कर्णिम् सन् बिद्गविक्तित व न्दिमञ्जू लाति ॥ ७६ ॥ अ च जातु हु हेर्ग्दीत वर्काविधिनेपार्श्व परेर सञ्चामाणः । समकेन मुनान पिसगा डान्यमसंप्रापनदीतुरङ्गमेण ॥ ७७ ॥ कुभपुरणभवःषट्ठवैद्यवार्तिनदेश्यासिनद्याः । नवस्विरदेवृद्दिनसंगै सक्पानिन मिवंबित सर्ज ॥ ७० ॥ नृपर्तेः प्रतिविक्षमेव नन्तानवान् पश्चिर द्योविलंखावन् । अपयोग र मर्थवनिहिन्नुनव भो। अपिर ने। निमीजिनाः ॥ अछ ॥ ज्ञानिनिकन्दि नमा व स्वीविच स्व सामान्यम् वेन समूद्ध प्रभवेसः । ज्ञानि प्रेम्प प्रमानिक स्व भीमृतियर्जनायाङ् नाः श्रंकाङ् वासी दिनिविषि ॥ ७० ॥ नैताकनीर्वेतुरमान् प्रविमान्य वेतपृष्टा नवः सञ्जव कुमनिव स्दे हः । तकीक जेतरत पश्चित्ततः सद लडिशन्मातमका पद्मेश्व खवान्यमुव ॥ पर् ॥ तत्रीहित खतमनुक्कत श्रव्यमेवपिनीः स काश मबसत्रवृक्षेतिनाव । मञ्जानवागनमुपेकानमें कपुचमज्ञाननः स्वचित्रने पनिः इक्स ॥ प्रम् ॥ नै। इम्पनीय सुदि का का शिशाः प्रच क्र्रीय व्यक्तितातान मुद्दार्यका मुद्दाः । से भूत्य स्क्रद्र य भूमिय कि श्वापक् सार्थि नैर्नेय नवारिभिरे व वृद्धः ॥ च्य ॥ दि हा मामास्यतिभवान विपुत्र होता द्रण्येत यसाह निकेतितमुक्त वन्तं । आस्या नापूर्वभिव मुक्तविवंभुकां प्रेशस च के स् सायितःप्रथमापत्रशः॥ रूप्तः। वायोष्यवृत्तनम्बाननप्रसूर्वेत्रेत्तानुष्यदेशमगदनामयिवानिनारं। सर्वाद्यस्यविक्तिः निमिन्धमेक्रीबीज प्रतेष्ठज ननीं ज्व बानः व हेनि ॥ ८५' ॥ इ त्वंग नेतन गुणाईक्मवंविधवां विध्य स्ववेत्वमिष्टिने व स्वाधिपे त । स्थान् जनार नवनः समुनिर्ववाचेषु वंपत्सुमनुगर्नुमनाः सहारः ॥ 🗨 ॥ प्राप्तानुगः सपहिरासन महारूजासम्पाद्य पातकविन्त्रभृतिनिन्तः। सानानिविद्यपद्माननिनाव्येनुंगारंद्धन्यस्यनेगैविमवानुग्रिः॥ ८७ ॥ निहत्समर्थेय गतेगनचपःविमेचतेवधा जते।अनुनिष्ठनु । सर्वश्चितंत्कार्मयाचनात्मनःस्ट्रार्त्वतीर्विद् श्चेषनंनुपः ॥ चच्च ॥ समीवि वा वषुरु व भेर प्र से नित्रीः सामन्दिर् विकित भूनिर्कान सेन । मनेश न नंगुरु निवार प्रमुख इ न्यावान खंडा का विदिवान स्टाइ म्॥ ५७ ॥

- Thus did the chair, like an artful mistres, allure the king forgetful of all other business, and leaving to his ministers the burden of the state, while his passion grew by indusgence.
- The king, without his retinue, passed the night in some sequestered spot, repulsing on a bed of leaves and biossoms, and enlightened by the slame of wild herbs. At dawn, being awakened by the slapping of his elephant's ears in place of the royal drums, he delighted in listening to the sweet and auspicious tones of chirping birds.
- One day, pursuing an antelope, and outstripping his attendants, he arrived, with his horse foaming with fatigue, on the bank of the Tamasa a stream frequented by the devout. In its waters a deep found caused by the filling of a vale, was mistaken by the king for the grumbling of an elephant; and he directed an arrow towards the spot whence the sound proceeded. By this forbidden act, DAS'ARAT"HA transgressed: for even the wife, when blinded by passion, deviate into the pathless waste. "Ah fasher!" was the piteous cry which issued a and the king, anxious, fought its cause among the reeds. He found the vale; and, near it, a hermit's fon pierced by his arrow; and he stood amazed as if internally wounded. The king of glorious lineage, who had already alighted from his korfe, eagerly inquired the pasentage of the youth; who, resting on the vale, with feeble accents said " he was son of a hermit, but no priest." Instructed by him, the king conveyed the wounded youth to his blind parents of and to them as they approached their only for, he milated his millaken deed. The unhappy pair, lamenting, conjured the king to draw the arrow from the breaft of their wounded fon. The youth was dead. The aged hermit, ratifying his curse with tears instead of water for a libation, pronounced this imprecation on the king. " In thy extreme age then shalt reach, thy fated time, with grief like mine for a beloved fon." While he spoke, as it were a ferpent affalling first and then discharging fatal venom; CAUS'ALYA'S lord, conscious of the first offence, addressed him thus: " Thy curse has fallen like a boon on me, who have not feen the beauteous countenance of offspring; as fire, fed with fuel, fertilifes the foil which it burns." The king then faid " for me, who merciless deserve death at thy hands, what are the commands?" The holy hermit asked fuel for the funeral pile; he and his wife resolving to follow their fon in death. The king, whose attendants were now arrived, promptly fulfilled his command, and remained dejected, bearing within him the hermit's curfe, a cause of his future deftruction, as the escan embraces the devouring fire. Again the king addressed him. "Wife hermit! what shall this shameless criminal, who deserves death from thee. now perform." He defired the funeral flame to be duly lighted: and the king presented the fire for him and his wife and fon,

4 The chief of the race of RAGHU, attended by his army, now returned to his palace, dejected, bearing in his mind the heavy imprecation of the faint, as the ocean holds within itself the fire of destruction. 4. 74.—89.

The royal and military tribe is prohibited from killing elephants unless in battle.

This extract exhibits, besides two stanzas of Puspitagra and as:
many of Sundari metre, † both belonging to the present head, and one,
of which an example was promised in this place, ‡ several others which:
have been before exemplified, and two which are less common.

A singular species of variable metre is mentioned by writers: on prosody, who describe it as a stanza in which the verses increase in arithmetical progression. In the instance exhibited by them the four verses of the stanza increase regularly from 8 to 20 syllables. Varieties of it are noticed in which the progression is not regular: the short verse exchanging places with the second, third, or sourth. The quantity of the syllables is in general indeterminate: but varieties are stated in which the verse consists of short syllables, either ending, or beginning with a spondee, or both ending and beginning with spondees.

A class of metre, which admits an inordinate length of the verse, is known under the general designation of Dan'data. The verse may consist of any number of syllables from 27 to 999; and the specifick name varies accordingly. The construction of the metre requires that the six first syllables be short, and the remainder of the verse be composed of cretick seet; or, instead of the cretick soot, the bacchius. These two kinds of metre are distinguished by

^{* 75} and 76.

^{† 77} and 79, most properly the iast.

[‡] Swa'gata' 78.

[|] Vasanta tilaca 81-87 and Upéndravajra 88. Ruchira' 89.

[¶] Manjubhashini 74 (P. T. D. 3 1.) and Mattamayura 80 (2 S+T. I. D 5.)

f For example. Arna, which comprises to feet; Arnava II; Vyála 12; Jimuta 13; &ct

different names. A verse consisting of any number of anapæsts within the limitation abovementioned, is also comprehended under this general designation; as are verses of similar length consisting exclusively of immbick or trochaick seet. They have their peculiar denominations.

EXAMPLES of these extravagantly long verses are to be found in the works of the poet V'ANA. It is unnecessary to insert any specimen of them in this place; as an example will occur in a sub-sequent quotation from BHAVABHU'TI'S drama.

THAT class of metre which is termed half equal, because the alternate verses are alike; comprises various sorts, which appear to be compounded of two simple kinds with an appropriate number of syllables of a determinate quantity.

ANOTHER class, in which every verse of the stanza is different, appears more complex. But, here also, the quantity as well as the number of syllables being regulated, the stanza is in fact composed of four kinds of uniform metre.

The most common metre of this class is that called *Udgatá*. Here the number of syllables in each verse, as well as their quantity differs; the first verse comprising an anapæst, iambick, tribrachys and trochee; the second a tribrachys and anapæst with two iambicks; the third, a trochee, tribrachys and two anapæsts; and the sourch, an anapæst, iambick, and pyrrichius with three iambicks.

[•] Or the third verse may consist of astrochee and dactyl, with two anapasts; or of two trochees, with two anapasts: and the metre is denominated, in the first instance Saukabhaca; in the second, Lalita.

The 1sih canto of the Endtarjuniya is in this metre; and so is the 15th cento of Maiona's epick poem. It begins thus:

.अञ्चनम्पाग्रहं नमयेनस्ट सि वि तंमधुद्धिः । मानमस्चनत्वेदिपतिःपर्वृद्धिमन्दिरमंग्रहिमानिनं॥ १॥

But the king of the Chidis was impatient of the honors, which the son of Pindu commanded to be shown in that assembly to the soe of Mad'hu: for the mind of the proud is envious of the prosperity of others.

OTHER kinds of metre, in which every verse of the stanza differs in the number and quantity of she syllables, are comprehended under the general name of Gáthá; under which also some writers on prosody* include any sort of metre not described by Pingala or not distinguished by a specifick appellation. The same denomination is applicable also to stanzas consisting of any number of verses other than sour. † An instance of a stanza of six verses has been remarked in the Mahábhárata; and another example occurs at the beginning of Ma'gha's poem. ‡

बिधालता का कि मयंदिवाक ऐविधूमते विः किमयं क्रताश्नः । गतंतिर बीनमनू स्सारवैः प्रसिद्धमू क्षेत्रन सनंद विभेजः । यतत्वधाक्षमविसारि सर्वतः किमेत दित्यानु समीक्षितं जनैः ॥ ९॥

> Dwidha critatma, cim ayam divacaró? Vid'huma róchih, cim ayam hutas'anah? Gatan tiraschinam anuru sarat'héh. Prasidd'ham urddhajwalanam havirbhujah. Patatyad'hó dhama-visari sarvatah. Cim étad? ityáculam scshitam janaih.

[·] Hela'yud'ha and Na'ra'yan'a Tara'.

[†] DIVA'CARA on the Vritta Reinúcara.

[‡] It is cited by DIVA'CARA BHAT TA as an instance of a stanza of six. Yet the scholiasts of the poem omit the two sirst verses, and read the stanza as a tetrastich: one commentator, however, does remark, that copies of the poem exhibit the additional verses; and another commentator has joined them with two more verses in a separate stanza.

NA'REMA, descending from the heavens to visit GRENA, is thus described:

"Is this the fun felf parted into two orbs? It is fire shining with light diverted of smoke. The motion of the luminary, whose charioteer has no legal is distinguished by its curvature. The ascent of same is a known property of fire. Then what is this, which descends diffusing light around?" Thus was the sight contemplated with wonder by the people. May be seen.

VI. Prose; and Verse mixed with Prose.

I rollow the example of Sanscrit writers on professy, in proceeding. to notice the different species of profe. They discriminate three and even four forts, under distinct names. 1st, Simple prose, admitting no compound terms. It is denominated Muctaca. This is little used in polished compositions: unless in the familiar dialogue of dramas. It must undoubtedly have been the colloquial flyle, at the period when Sanger it was a spoken language. 2d, Prose, in which compound terms are sparingly admitted. It is called Culaca. This and the preceding fort are by some considered as varieties of a single species named Chirmica. It is of course a common flyle of composition: and, when polished, is the most elegant as it is the chastest. But it does not command the admiration of Hindu readers. .gd, Profe abounding in compound words. It bears the appellation of Utcalica praya. Examples of it exhibit compounds of the most inordinate length: and a single word exceeding a hundred syllables is not unprecedented. This extravagant style of compolition, being fuitable to the talke of the Indian learned, is common in she most elaborate works of their favourite authors. 4th, Prose modulated so as frequently to exhibit portions of verse. It is named Vritta. gand'hi. It will docum without tudy, and even against delign in oleveted compositions; and may be expected in the works of the best writers.

Some of the molt elegant and highly wrought works in profe are reckoned among poems, as already intimated, in like manner as the Telemache of Fenelon and "Tod Abels" of Gesner. The most celebrated are the Vásavadattá of Suband'hu, the Das'a Cumára of Dan'Dí, and the Cádamburi of Va'na.

The first of these is a port romance of which the story is simply this. CANDARFACETU, a young and valuent prince, fon of Chinta-MAN'I king of Cusumapura, a faw in a dream a beautiful maiden of whom he became desperately enamoured. Impressed with the belief, that a person, such as seen by him in his dream; had a real existence, he refolves to travel in fearch of her, and departs attended only by his confidant Macaratiba. While repoling under a tree in a forest at the foot of the Vind'hya mountains, where they halted, MACARANDA overhears two birds converling, and from their diffourfe, he learns, that the princed VASAVADATTA, having rejected all the fuitors who had been -affembled by the king her father for her to make choice of a hulband. had been CANDARFACE'TE in a dream, in which flie had even dreamt his name. Her confident, TAMALICA, fent by her in fearch of the prince, was arrived in the same forest, and is discovered there by MA-CARANDA. She delivers to the prince a letter from the princels, and conducts him to the king's palace. He obtains from the princels the

[•] Same with Pát'ali pura or Pát'ali putra; the ancient Palibethra, now Patna 'As. Res. Vol. IV. p. 11.

arowal of her love; and her confident, CALN'SATI reveals to the prince the violence of her pellion:

The lowers depart together: but, passing through the forest, he loses her in the night. After long and unsuccessful fearch, in the course of which he reaches the shore of the sea, the prince, grown desperate through grief, resolves on death. But, at the moment when he was about to cast himself into the sea, he hears a voice from heaven which promises to him the recovery of his mistress and indicates the means. After some time, Candarpace to finds a marbitalizate the precise resemblance of Va'savadatta. It proves to be her; and she quits her marble form and regains animation. She recounts the circumstances under which she was transformed into stone.

HAVING thus fortunately recovered his beloved princets, the prince proceeds to his city, where they pass many years in uninterrupted hap-pinels.

This flory, told in elegant language and intermixed with many flowery descriptions in a poetical style, is the Va'sayadatta' of Suband'hu. There is an allusion, however, in Bhayabhu'ti's drama, to another tale, of Va'sayadatta's having been promised by her father to the king Sanjaya and giving herself in marriage to Udayana. I am unable to reconcile this contradiction otherwise than by admitting an identity of name and difference of story. But no other trace has been yet sound of the story to which Bhayabhut i has alluded.

⁺ Málati mád'bava. Act. 23.

In the work above described, as in various compositions of the same kind, the occasional introduction of a stanza, or even several, either in the presace, or in the body of the work, does not take them out of the class of prose. But other works exist, in which more frequent introduction of verse makes of these a class apart. It bears the name of Champú: and of this kind is the Nala Champú of Trivicrama before mentioned. This style of composition is not without example in European literature. The "Voyage de Bachaumont et de la Chapele," which is the most known, if not the first instance of it, in French, has found imitators in that and in other languages. The Sanscrit inventor of it has been equally fortunate: and a numerous list may be collected of works expressly entitled Champú.

THE Indian dramas are also instances of the mixture of prose and verse; and, as already mentioned, they likewise intermingle a variety of dialects. Our own language exhibits too many instances of the first to render it necessary to cite any example in explanation of the transition from verse to prose. In regard to mixture of languages the Italian theatre presents instances quite parallel in the comedies of ANGELO BEOLCO surnamed RUZANTI: with this difference, however, that the dramas of RUZANTI and his imitators are rustic farces; while the Indian dramatists intermingle various dialects in their serious compositions.

NOTWITHSTANDING this defect, which may indeed be easily removed by reading the Pracrit speeches in a Sanscrit version, the theatre

^{*} As the Nissinha Champu, Ganga Champu, Vrindavana Champu, &c.

t, WALKER'S memoir on Italian tragedy.

when Hinder is the most pleasing part of their polite literature with the best furted to the European take. The reason probably is; that attends are referenced more within the bounds of poetic probability, when the poling for exhibition before an audience, than in writing for quivers per usal or even for public recital.

THE Sacuntala by CA'LIDA'SA, which certainly is no unfavorable specimen of the Indian theatre, will sufficiently justify what has been here afferted. I shall conclude this essay with the proof extract from Bhawashu'ti's unrivalled drama, entitled Malati-madilians, pressing a concise argument of the play, the sable of which is of pure invention.

BHU'A I ABU, minister of the king of Padmavati, and DEVARATA in the service of the king of Viderbha, had agreed, when their children were yet intents to cement a long flublishing friendihip, by the intermatriage of Marinaphter of the first with Ma'D'HAVA son of the latter. The king having indicated an intention to propose a match, between Barkivksva Caughter, did the own favolitie NANBANA, who was both old and ugly, the minister is apprehensive of giving offence to the king by refuling the match; and the two friends concert a plan with an old sciencis, who has their confidence, to throw the young people in each other's way, and to comilie at a folen matriage. In purluance of this scheme, MA ""HAVA is fent to finish his studies at the city of the Padmdvate under the care of the old priestels Camandaci. By her I contrivence, and with the aid of Malati's foller liker Lavancie. the young people meet and become mutually enamoured. It is at this period of the story, immediately after their first interview, that the play opens. The first scene, which is between the old priestels and her sepassion of the previous events, and prepares the special control of the previous events, and prepares the special control of the large printers marged SAU nations, who has low arrived at supernatural power by religious austerities; a circumstance which her successor Avalors as has learned from Capa'lacun'd all the female pupil of a tremendous magician Aghoraghan T'A who frequents the temple of the dreadful goddels near the cemetery of the side.

of The bufiness of the play commences; and Madinium, this companion Macar Anda, and fervant Calanana appear ligan the feene. MA'D'HAYA relates the circumstances of the interview with MA'EATI, and acknowledges himself deeply smitten. His attendant produces a picture which MA'LATI had drawn of MA'D'HAVA, and which had come into his hands from one of her female attendants. In return My'p/HA-VA delineates the likeness of MA'LATI on the same tablet and writes under it an impassioned stanza. It is restored; and being in the faqual brought back to Ma'Lati, their mutual passion, encouraged by their respective confidents, is naturally increased. This incident furnishes matter for several scenes. Mean time, the king had made the dong expected demand; and the minister has returned an answer that " the king may dispose of his daughter as he pleases." The intelligence reaching the lovers throws them into despair. Another interview in a public garden takes place by the contrivance of CA'MANDACÍ. Atl this moment, a cry of terror announces that a tremendous tiger has issued from the temple of S'IVA: an instant after, NANDANA's youthful fifter MADAYANTICA' is reported to be in imminent danger. Then

Ma's show dicompanion, where a rands, is seen rushing to betweenthe The parish the there will be being the wounded. This parise behind the scenes. MADAYANTICA, Saved by the valour of MAGARANDA, spicers on the stage. The gallant youth is brought in inchible. of the women he revives; and MADAYAKTICA' of courfe falls in love with her deliverer. The preparations for Ma'LATI's wedding with NAN-DANA are announced. The women are called away. MA'D'HAVA ID despair resolves to sell his living field for for the ghosts and malignant spirits as his only resource to purchase the automplishment of his wish. He accordingly goes at night to the cemetery. Previous to his appearance there, CAPA'LA CUN'D'ALA', in a short soliloguy, has hinted the magician's defign of offering a human facrifice at the shrine of the dreadful goddels, and selecting a beautiful woman for the victim. MA'D'HAVA appears as a vender of human flesh; offering, but in vain, to the ghosts and demons the slesh off his limbs as the purchase of the accomplishment of his wift, He hears a cry of diffres and thinks he recognifes the voice of MA'LATI. The scene opens, and she is discovered dreffed as a victim, and the magician and forceress, preparing for the facrifice. They proceed in their dreadful preparatives. , MA'D'HAVA rushes forward to her rescue: she slies to his arms. Voices are heard as of persons in search of Ma'LATÍ. Ma'D'HAVA, placing her in safety, encounters the magician. They quit the stage fighting. The event of the combat is announced by the forceress, who vows vengeance against MA'D'HAVA for slaying the magician her preceptor.'

THE fable of the play would have been perhaps more judiciously arranged if this very theatrical situation had been introduced neader to

the close of the drama. BHAVABHU'DI this placed it if early as the fifth act. The remaining five (for the play is in Penells) have less interest.

"MA'LATI who had been stolen by the magician while alleep, being now restored to her friends, the preparations for her wedding with NANDANA are continued. By contrivance of the old priestess, who advised that she should put on her wedding dress at a particular temple, MACARANDA assumes that dress and is carried in procession, in place of . MA'LATÍ, to the house NANDANA. Difgusted with the masculine appearance of the pretended bride, and offended by the rude reception given to him, NANDANA vows to have no further communication with his bride; and configns her to his fifter's care. This of course produces an interview between the lovers, in which MACARANDA discovers himself to his mistress: and she consents to accompany him to the place of Ma-LATI's concealment. The friends accordingly affemble at the garden of the temple: but the forceres, CAPA'LACUNDALA', watches an opportunity, when Ma'LATI is unprotected, and carries her off in a flying car. The distress of her lover and friends is well depicted: and, when reduced to despair, being hopeless of recovering her, they are happily relieved by the arrival of 'SAUDA'MINI, the former pupil of the priestess. She has rescued Ma'LATí from the hands of the sorceress, and now restores her to her despairing lover. The play concludes with a double wedding."

FROM this sketch of the story it will be readily perceived, that the subject is not ill suited to the stage: and making allowance for the best lief of the Hindus in magick and supernatural powers attainable by worship of evil beings as well as of beneficent deities, the story would not even carry the appearance of improbability to an Indian audience.

setting aside this confideration, it is vertainly conducted with art; and, notwithstanding some defects in the sable, the interest upon the whole is not all preserved. The incidents are striking. The interest upon the managed. As to the style, it is of the highest order of Sanscrit composition: and the poetry, according to the Indian taste, is beautiful.

I SHALL now close this essay with the promised extract from the play here described. It contains an example, among other kinds of metre, of the Dan'daca or long stanza: and is sayed more on this account than as a fair specimen of the drama. This disadvantage attends all the quotations of the present essay. To which another may be added: that of a prose translation, which never conveys a just notion of the original verse.

Extract from Málatí Mád'hava. Act 5.

MA'D'HAVA continues to wander in the cemetery.

- "Human flesh to be sold: unwounded, real flesh from the members of a man. Take it.

 Take it.
- . How rapidly the Pais'achas flee, quitting their terrifick forms. Alas! the weakness of these beings'

He walks about.

'The road of this cemetery is involved in darkness. Here is before me "the river that bounds it; and tremendous is the roaring of the stream, breaking away the bank, while its waters are embarrassed among the fragments of skulls, and its shores resound horribly with the howling of shakals and the cry of owls screeching amidst the continguous woods." †

Behind the scenes.

Ah! unpitying father, the person, whom thou wouldst make the instrument of conciliating the king's mind, now perishes.

^{*} Anushtubh. आश् सूपूनमचाजपुरु बागोपचल्यिनं। विकीवनेमहामासंगृद्धानामृद्धानामहा। १ ।।

[†] Sardula vicridita. गुल्लाकु खुकुटीरकेश्विक घटाशुक्तार संगिकानकन्द क्येर व कालकानिभूनप्रातमार भीने खटेः। अन्तःशीर्णकरंकककेर पयः संगेध कुलंक सक्षीतिनिर्ममधीर सर्धर वापारे स्वर्शनस्त्र ॥ १५॥

MA'D'M. listening with sensisty.] if I hear a found piercing as the eagle's cry; and panetrating my foul as a voice but too well known. My heart feels rent within me; my limbs fail; I can fearcely fland. What means this?"

That pitcous found iffued from the temple of CARA'LA'. Is it not the refert of the wicked? a place for fuch designs, Be it what it may; I will look.'

He walks round.

The scene opens; and discovers CAPA'LACUN'D'ALA' and AGHÓRA-GHAN'TA, engaged in worshipping the idol: and MA'LATÍ dressed as a victim.

MA'L.] 'Ah unpitying father of the person, whom thou wouldst make the instrument of conciliating the king's mind, the perishes. Ah fond mother! thou too art slain by the evil sport of sate. Ah venerable priestess; who hved but for Ma'Lati; whole every effort was for my prosperity; thou hast been taught by thy fondness, a taking forsow. Ah gentle LAVANGICA'! I have been shown to thee but as in a dream.'

MA'D'H.] 'Surely it is she. Then I find her hiving.'

CAPA'LA CUN'DALA' worshipping the idel CARA'LA'.] 'I bow to thee, divine CHA'MUN'DA'.

- "I revere thy sport, which delights the happy court of SIVA, while the globe of the earth, finking under the weight of thy stamping foot, depresses the shell of the tortoile and shakes one portion of the universe, whence the ocean retires within a deep abyse that rivals hell."
- May thy vehement dance contribute to our success and satisfaction; amidst the praise of attendant spirits assonished by the loud laugh issuing from thy necklace of heads which are animated by the immortalizing siquid that drops from the moon in thy orest fractured by the nails of the elephant's hide round thy waist, swinging to the violence of thy gestures: while mountains are overthrown by the jerk of thy arm terrible for the slashes of empossoned stame which

[•] Mandherants. ना.च् साव दि काम पुर्ति मृत्रि मित्रामाना र जिल्लाकर्षी परिचित्रक्व नेत्र समा द नेति । अत्य

[†] The Pracest original of this passage, though profe, is too beautiful to be omitted.

Há táda niccarun'a! élő dán'i m'arenda-chittáráhóbaäran'an janó bibajjaï. Há amba finéhamaä-hïaé! tum api hadáfi débba dubbilafidéna. Há Máladímaä-jívidé, mama callán'afáhanécca-fuha-faäla-bbábáré, bhaävadi! chiraffa jánábidáfi duec'ham finéhén'a. Há pïa fahi Lavangïé! fivina-ávafara-métta danfan'á aham dé fambuttá.*

¹ Vattra. वर्षायमनायाममुक्रमञ्जूषाध्वतिः। विभावनेत्रमुक्तानामनिष्ठानामस्युवं॥ 📢 ॥

[।] Sardula vicri dita. श्व इ अनिमुश्रितिभेर नम्बूनोक्षतिचीड नर्था कार्यर्थने पवित्र कार्याह्म स्व स्व विति । पाना कार्यामका नकाविवर्यस्थित्वार्थावंदेहेनेदिननी च क स्व परित्र सकार्यिकारिनं ॥ ९०॥

issue from the expanded heads of hissing serpents closely entwitted. The regions of space mean time are contracted, as within a circle marked by a flaming branch by the rolling of thy head terrifick for the wide flame of thy eye red as raging fire. The little are scattered by the flag that waves at the extremity of the vast skeleton which thou bearest. And the than and god exults in the close embrace of Gauai frightened by the cries of ghosts and spirits triumphant "*

They both bow before the idol.

MA'D'H.] ' Ah! what neglect.

"The timid maid, clad as a victim in clothes and garlands stained with a sanguine die, and exposed to the view of these wicked and accursed magicians, like a sawn before wolves, is in the jaws of death; unhappy daughter of the happy Bhu'ravasu. Alas! that such should be the relentless course of sate," \$

CAPA'L] 'Now, pretty maid, thipk on him who was thy beloved. Cruel death haftens towards thee.' ‡

MA'LATI] 'Beloved MA'D'HAVA! remember me when I am gone. That person is not dead, who is cherished in the memory of a lover.'

CAPA'L.] 'Ah! enamoured of MA'D'HAVA the will become a faithful dove. However that be, no time should be lost.'

AGHÓRA. lifting the sword.] "Divine CHA'MUN'DA'! accept this victim vowed in prayer and now offered to thee."]

MA'D'H. rusbing forward raises MA'LATI in his arms.] 'Wicked magician! thou art slain.'

[•] The original stanza is in Dan'daca metre; of the species denominated Prachita and Sin-havicránta. The verse contains 18 seet (2 Tr. 16 C.) or 54 syllables, and the stanza comprises 216 syllables.

न्य वित परिक्राणियर्थं वर्षाय प्रकाण विविधि निर्माण नामान को निर्माण प्राण्य का प्रकाण प्रकाण प्रमण्ति । व्याप विवाध वर्षा वर्षा विविधि का प्रकार प्रकाण प्रकाण प्रकाण वर्षा के व्याप का प्रकाण प्रका

[्]रं † Sérdúle vicridite. व्यक्ताव्यक्त कर्षानाव्य वस्त्रापा व सम्बद्धा वनागापारं भवनिर्देनीयवृष्टनेशिद्धनेत्रानीयर् । सेवंभूरिवसेत्रं नेशिव व्यक्तामृक्षितुँचैव कीनेक्षाविककात्र मानकात्र कर्षाव्यक्ति सेशक्ताः ॥ २०॥

¹ Prabarebin'i. मंजहेक्स क्षिते। क्ष्मक्षापूर्व वर्षात्व कित्रहारा काः।

[🛊] Prabaribin'i. चानुक्रेमव्दिननंत्रसाधवाषुगुष्टिनानुपनिष्टिनाम अस्पूर्ण ॥ २१॥

On Gath Calls, and

and the first appropriate the state of the s 11 Mar 2. 7 . 4 Save dried prince ! . Ohe subhade Male wat wat 11 .

. that were it Pentindicions. A Thy friend in before sheep who bank ingi terror litrate must annual hath his providing anielloniby the effective fide fail. "Conte the providing. "The withed wretch Dan floor feel the auty Builder beithe enture on his constructed. "I

AGHÓRA.] 'Ah! who is he that dares to interrupt us?'

CAPA L.] ' Venerable Sir! He is her lover; he is Ma'Q'HAYA, fon of Ch'MARDACI's friend, and a vender of human fiesh '

MA'L. sighing. I know not; Prince! I was sleeping on the terrace. I awoke here.

MA'D'H. blushing.] "Urged by the eager wish that I may be blessed with thy hand, I came to this abode of death to fell myfelf to the ghofts. I heard thy weeping. I came hither."

, MA'L.] Alasi, for my fake wert thou wandering regardless of thyself!

MA'D'H.] Indeed, it is an opportune chance.

"Having happily faved my beloved from the fword of this murderer, like the moon's orbfrom the mouth of devouring Rahu, how is my mind distracted with doubt, melted with pity,

agitated with wonder, inflamed with anger and burfting with joy " t

Achor I Ah! thou Brahmen boy! "Like a stag drawn by pity for his doe whom a tiger has seized, thou seekest thy own destruction, approaching me engaged in the worship of this place of human facrifice. Wreich! I will first gratify the great mother of beings with thy blood flowing from a headless trunk." #

MA'D'H,] 'Thou worst of sinful wretches! "How coulds thou attempt to deprive the tuple world of its rareft gem, and the universe of its greatest excellence, to bereave the

"Vusanta tilacu. नागाणिष क्रुं अ परिश्रं ह पुत्य अ कारभूवी है निवालिनिये में वे दे थीनाना । धालाम्भी संपर्धानायपरे न भूगावी स स्मेनी क क् किंगानिन बांग ने किं।। (१ ॥

† Sundula vicridita सहा द न्यामियान न वरी देवातामासाद्य मेद स्रोत्साक्ष याणपान् विवयादाँ किन्द्र ना प्रवसी है आनं काह्य क लंद्र नं करणया विश्लोगिन विश्वायाको भेनक्वितं मुद्दाविक स्तिनंचेत क संवर्भतं ॥ १४ ॥

💲 Suaula vici i dita. बाह्यानामृतीसपान् सम्गन्यनि हिंसाइ वेःवापप्रास्थ पहार्न्तवत् वक्षाक्रीविवेते चर् । सीरंपामा वनेवभूग ज न ने मु है निख हा ह निकास का का का कर के द विद्या नमार निम्दा निका ।। रूप्।।

^{🎍 .[}Loru'i. मरक्काने क क्षानुक्तां कार प्रतिनर्भ का म क दिन्तीन मन्त्रेक्शनी कं क्षानुक्त हारू नहेता. **अनुमुक्तिक क्रोतक क्रोक्ता क्राधि। वे क्रीका मार्क्स मानुम मनुष्ये पाय । प्राप्ति प्रविधार्तिको । विवाह । १ 🐪 🗥 🕩**

PRACTYT PORTRY.

people of light, to drive the kindred to despiration, to humble love, to make vision vain, and render the world a miserable waste?"

"Ah wicked wretch! "Hast thou dared to lift a weapon against time tender form, which even shrunk from the blow of light blossoms thrown in merry mood by playful dimicis." This arm shall light on thy head like the sudden club of Laste."

AGHOR.] 'Strike, villain! Art thou not fuch?"

MA'L. to MA'D'H.] 'Be pacified, dear MA'DHAVA! The cruel man is desperate. Abstain from this needless hazard.'

CAPA'L. to AGHOR. \ 'Venerable fir, be on your guard. Kill the wretch.'

MA'D'H. and AGHÓR. addressing the women. Take courage. The wretch is flain. Was it ever feen that the lion, whose sharp fangs are fitted to lacerate the front of the elephant, was foiled in fight with deer.";

A noise behind the scenes. They listen.

'Ho! ye guards who feek Ma'LATI. The venerable and unerring Ca'MANDACI encourages Bhurvasu and instructs you to beset the temple of Cara'La'. She says this strange and horrid deed can proceed from none but Aghoraghant'a; nor can ought else, but a sacrifice to Cara'La', be conjectured.'

CAPA'L.] ' We are furrounded.'

AGHÓR.] 'Now is the moment which calls for courage."

MA'L] ' Oh father! Oh venerable mother!'

MA'D'H.] 'Tis resolved. 'I will place Ma'LATi in safety with her friends, and slay this wicked sorcerer.'

MA'D'H. conducts MA'LATÍ to the other side and returns towards AGHO'-RAGHANT'A.

AGHÓR.] 'Ah wretch! " My sword shall even now cut thee to pieces, ringing against the

Sic'harini. अस्तर्चंत्रर्पित्नुविन रत्नंविभुवनं नित्वोक्षेत्रोक्षेत्ररण स्र्यंवान्धवज्ञनं ।
 अस्थिकन्द्र्येज ननवनिर्माणम स्रवंत्रवज्ञीकार्य्यकं स्मिष्टिकारं स्रविविधारं स्रविति।। १६ ॥

[†] A very uncommon metre named Avitat'ha or Narcut'aca. प्रणाविश्वास्य विश्वास्य विश्य

[‡] Vasanta tilaca सेवेति श्रेषिषु र्वेष्त म्यपापः विवासन्। विन् पिये न क्रिन् व्यमादि । सार् ग संगर्विश्वविभ कुत्राकू टकुष्टु कपाणि कुलियु सार्रेशमादः ॥ २००॥

joints of thy bones, paking with international rapidity through thy tough markles, and playing unrefilted in wheth like point clays

They fight. The scene closes.

SYNOPTICAL TABLES OF INDIAN PROSODY.

Feet used in Sanscrit Prosody.

TRISYLLABIC.

M. — — Molossus.	М.	Ti O ANTIBACCHIUS J. PALIMBAC-
		CHIUS V. HYPPOBACCHIUS. H.
Y. o - BACCHIUS. B.		J Amphibrachys f. Scothus. Sc.
R CRETICUS J. AM	PHIMACER. C.	BH. Q Q DACTYLUS. D.
S. o o - Anapastus. A	1	N. o o o Tribraches. Tr.
		•

MONOSYLLABIC.

L	BREVIS.	Br.	G. —	Longus.	L.
 . 0			~.	20114001	

Feet used in Pracrit Prosody.

1. c. One Mátrá or Calá. Sara: BREVIS O BR.	Carn'a: Spondæus — S.
2. c. Two Mátrás or Calás.	Payod'hara: Scotius v — v Sc.
Hara: Longus - L.	Hasta: Anaphetus o o - A.
Supriya: Pyrahichius f. Periambus, Q Q P.	Charan a DACTYLUS — O O D.
3. c. Three Mátrás or Calás.	Vipra: PROCELEUSMATICUS O O O PR.
Tála: Trochæus — o T.	Indrásana: 5. c. Five Mátrás or Calás.
Dwaja: IAMBUS o - I.	CRETICUS C. BACCHIUS B. PRON PR. &c.
Tán'dava: TRIBRACHYS O O TR.	Sarója: 6. c. Six Mátrás or Calás.
Haya: 4. c. Four Mátrás or Calás.	Molossus M. &c.

^{*} Su'harin'i कठेार्शिश्चेषिकानिकर्रणाकार्मुखरःखर्द्वायुष्ट्रेट्श्चणविद्विनवेमच्युपर्मः।

निग्नद्वार दे विविषिगिषिक्षेपुंविक समिगिनंगानंसपदि सव म सेविकि र तु ॥ २०॥

Metre of the Vas; regulated by the number of splatoles. Seven classes subdivided into eight orders.

	divided into eight orgers.							
				CLASSI				
		Gáyatri.	Ushnih.	Anusht'ubh.	Vrihati.	Paketi.	Trisht with. ,	Jagati.
	A'rehi,	24	28	32	36	40	# 44	48
	Daivi,	1	2	3		5	6	7
3	A'suri,	13.	14	13	*	11	10	9
	Prájápatyá	, 8	19	16	20	24	28	32
RDER	Yajush, Siman,	6 · 19·	7 14	8 16	9 18.	10 ' 2 0	11 92	19 94
0	Rich,	18	21	24	27	30	33	36
	Bráhmi,	96	42	48	54	60	. 60.	72
				-		-		
	D	istri bu tio	n of the	Syllåbles in	Triplets;	.Tetrast	ichs &c.	
I. GA'YATRÍ. 2. Nyancusåi ini (Scund'hogrivá or								
	f. Tripád,.		8 ×	8 = 94		-	12.+8+	
. 1	2. Chatushy	ád,	6 ×	4 = 24	_		7,8 x 3 +	•
	3. Pádanivr	ĭt,	7 ×	3 = 21			12 + 8 ×	
4	l. Atipádan	ivr[t,6	+ 8 +	7 = 21 4	. Mahayrii	inti, (Saté	vrihati,) 12 >	3= 36
	5. Nági,			6 = 24		V . 1	PANCTI.	
	6. Váráhí,.	•		9 = 24	L_Chatushy	6d, (12	× 2 + 8 ×	2).
	7. Bardhmi	•		8 = 91	L Satah-	p15	+8+12+	8 - 40
	. Pratisht'l	-		6 = 21	or	8 +	12 + 8 +	12 == 40
	9. Dwipady	•		8 = 20	2. Astáro	- р	8 + 8 + 12 +	-12 = 40
L	0. Tripádvi	•		3 = 33	3. Prast	ára-pl	2 + 12 + 8 -	8 = 40
		U. Ush	*				.8 + 12 + 19	
1	. Tripád, (12 + 8×	₹).		5. Sansta	ra-p	12 4 8 + 8 +	12 - 40
1. Cacubh, 8 + 12 + 8 = 28 2. 1. Acsharapancti, 5 x 4 = 20								
	2. Pura U	hnih,_ 12	+ 8 +	8 = 28	2. Alpo	uah paneti	,5 ×	2 - 10
	3. Parisha	•			3. Pad	apancti,	5 ×	5 = 25
2	. Chatushp	ád,	7 ×	4 = 28	4	4	+ 6 + 5	k3 = 25
	ILI	. Anus	HT'UBH.					
	1. Chatush	pád,	8 ×	4 = 32	4. Jagati,.	•••••		6 - 48
	2. Tripád, (8 + 12×2). viz. 12 + 8 + 12: VI. TRĭshtubh.							
	er 12 + 1	3 + 6. or 8	3 + 12 +	12 = 32:	I. Jydtishn		11 + 🕉	×4 = 43
]	IV. VR	ĭhatí.				12 + 8:	
	1. Chatush	p á d,	9 ×				ali,11 (12)	
	2	8	×2 + 10	×2 = 36			+ 11 (12)	-
	3	. 8×3	+ 12	= 36			8+8+8	•
				• •			•	•

1. Pat'hya, 8 + 8 + 12 + 8 = 36.

Deficient and exuberant Metre.

- 1. Sai $\gamma_{i}^{(a)}$ + a × 3 ex. (Gáyatri) 5 + 6 × 3 = 23.
- 2. Cocumnti, = 0 + a xd
 - 3. Pipílic, mad'hyá, = (Tripád) = many + few + many ex. 8 + 4 + 8.
 - 4. Yavamad'hyá, = (Tripád, = sew + many + sew ex. 8 + 10 + 8.
 - 5. Nivrit, = a 1 ex. (Gáyatri) 24 1 = 23.
 - 6. Bhurij, = a + 1 ex. (Gáyatrí) 24 + 1 = 25.
 - 7. Viráj, = a 2 cx. (Gáyatrí) 8 + 8 + 6 = 22.
 - 8. Swaráj, = a + 2 ex. (Gáyatrí,) 8 + 8 + 10 = 26.

I. Gan'avritta of Sanscrit Prosody, and Ma'tra'vritta of Pra'crit Prosody; regulated by quantity.

1. A'RYA' or Oht'hú Pr. Gàhá. 30+27-57 c. Odd verse: 30 c. - 7½ ft. (6th = Sc. or Pr). Even verse: 27 c. = 7½ ft. (6th = Br). Each verse ends in L.

Pause in 1st verse before 7th ft. If Pr. But if 6th ft. be Pr. then pause after 1st syllable.

Pause in 2d verse before 5th ft. if Pr.

16 Species: Pat'hya': Pause after 3d ft. (3+4½=7½ ft. & 13 + 18 + 12 + 15 = 57 c). Vipulá: Pause placed otherwise. Hence A'divipulá, Antyavipula', and Ubhayavipulá, with 1st verse, 2d, or both, irregularly divided by the pause. Chapalá 1st f. S. or A. 2d Sc. 3d S. 4th Sc.; 5th S. or D. 6th Sc. or Pr. (in' the short verse, Br). 7th S. D. A. or Pr. Hence Muc'hachapalá, Jag'hanya

chapalá and Mahaekapalá, with 1st, 2d or both verses so constructed. Therefore A'ryá +3 Chapalás × Parkyá+3 Vipulás — 16 species.

Variations: A'ryā, 1st verse 10800. 2d verse 6400. Chapalá 1st verse 32, 2d verse 16.
In Prácrit prosody, 27 species: from 27 L.

4-3 Br. = 30 syll. to 1 L. and 55 Br. = 56 syll. Specifick varieties. Culind containing 1 Sc. Culat'h4, 2 Sc. Vésyá, many Sc. Ran'dá, no Sc. Gurvin'i, Sc. 1st, 3d, 5th or 7th ft. But this is against rule: which excludes amphi-

- brachys from the odd feet.

 2. Updiri or Vigat ha Pr. Viga ha. 27 + 30=57c. viz. 12+15+12+18.
 - 3. Upaqfri Pr. Ga'hu. 274-27 -54 c. viz.

[•] If there be room to doubt whether the metre be reduced from the next above, or railed from the fext below, the first verse determines the question; for it is referred to the class to which the first verse or pada belongs. If this do not suffice, the metre is referred to that class, which is sacred to the deity, to whom the prayer is addressed. Should this also be insufficient, other rules of selection have been provided. Sometimes the metre is eked out by substituting may or una for correspondent vowels. This in particular, appears to be practiced in the Samavida.

12+15+12+15

4. Giri or Udga'tha' Pr. Ugga'ha'. 30+30-60 c. vis. 12+18+12+18.

5. A'ny a'giri or Chandhaca Pr. Scanding. 324-32 - 64 c.

8 ft. complete. (3+5,*=8f. and 12+20+12+20=64 c).

Species 16 (Pat'hya' &c), variations of each vegge 10800,

In Pracrit prosedy, 28 species from 28 L. & 8 Br. to 1 L. and 69 Br.

6. Chandrica', Sangiti or Git hini Pr. Gihini 30+32 == 62 c. viz. 12+18+12+20.

7. Sugiti, or Parigiti Pr. Sinhini 324-30 -62 c. viz. 12+20+12+18.

Also 6. Sangiti, 32 + 29 - 61 c. A'ryá (7½ ft.) 4 L. in both verses.

7. Sugiti, 32 + 27 - 59 c. L. in first verse only.

8. Pragiti, 30 + 29 - 59 c.

+ L in second repe only.

9. Anuflii, 27 Reguli.

10. Manjugiti, 29 + 30 59 o

11. Vigiti, 29 + 29 = 58 pg.
Upagiti + L. in both verses.

Chárugiti, 29 + 32 - 61 c.
 Reverse of Sangiti.

13 Vallari, 32 + 30 - 69 c. A79igiti 1, in last verse.

14. Lefith, 50 + 39 - 62 c.

— L. in first were.

15. Pramadá, 29 + 27 - 56 o. Upagiti + L in first verse.

16. Chandricá, 27 + 29 = 56 c. + L. in last verse.

All these kinds admit 16 species as above: viz. Pat'hyá &c.

II. Ma'tre' vritta or Ma'tra' ch'handas, of Sanscrit Prosody.

1. VAITA'LIYA, 56 to 68 c.,,

1. Vaitaliya, 14 + 16 + 14 + 16 = 60 c.

End in C, + L to A for syllables by pairs (gven vernes not to begin with 2 Tr.)

2. Apátálica, End in D. & S.

3. Auparhhandasica, 16 + 18 + 16 + 18 = 68 c. End in C. & B.

Each kind admits \$ varieties of the short verse & 13 of the long: from 3 long syll, to 6 short legioning the one, & from 14 long syll, to 1 long & short in the other.

Also the following species under each kind.

Dacshinánticá, begin with I.
 Comprising 2 varieties of the odd verses.

- I. I. (or Ta.); and 4 of the even verses. I. B (or Pa. 2d or 4th or 5.Ba.)
- . 2. Udickya witta, odd verses begin with I.
 - 3. Práchya griffa, even verses C. or P.c. 4.
 - 4. Pravrittaca, the 2 preceding combined.
 - 5. Aparantica, 16 × 4 == 64 c. (Prach.)
 - 6. Charuhasini, 14 × 4 = 36c. (Udich.)
- 2. 'Ma'tra' samada, 16 (4 × 4) × 4 = 64 c. End S. or A. Begin S. A. D. or Fn.
 - 1. Mêtrê sameçe, 2d ft. St.A. & D. Sd ft.A.
 - 2. Vis'loca, 2d Sc. or Pa. 3d Spor D.
 - 3. Vánavásicá, 2dS. A. ot D. 3d Sc. or Fil.
 - 4. Chitrá, 2d Sc. or PR. 3d A. Sc. or PR.
 - 5. Upachitrá, 2d S. A. or D. 3d S. or D.
 - 6. Pádáculaca, the above intermixed.

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The 1st species and to 24 varieties; the 2d, 32 he he 3m 18 each. The variation of the last species are very numerous.

- 3. Gitya'nya' or Achalas hriti, 15 14 All shoghigallables.
- 4. Dwic'BAN'BACA; or Couplet.
 - Sic'ha or Chúda, 32. Bm. + 16 L.
 species: Jyótish 1st verne 32 Bn.2d 16 L.
 Saumyá or Arangácrídá 1st verne 16a⁷.

2d 32 Bar

Also I Star há 30 + 30 + 69 c, 1st Verse 28 Bz. + 14, 2d 30 Bz. L. .

- 2. Chanjá 32 + 30 = 62 c. lst SO Br. + L. 22 28 Br. + L.
- Chúlicé or Atirnohirá 29 + 29 + 58 c.
 Br. + L.

Also 3 Challes 29. + 31. - 60) 6. 1st Verse 27 Br. + L. 2d 29 Br. + B.

III. Mátrá vritta of Prácrit prosody continued from Table I.

- 8. Dóhá S. Dwipát'ha, 13 + 11 + 13 + 11 = 48 c,
- 3 ft. viz. odd verse 6+4+3. even verse 6+4+1.
- 23 species from 23 L + 2 Br. to 48 Br.
- Utcach'há Pr. Uccach'há, 11 x 6=66 c.
 verses, 3 ft. each, 4 + 4 + 3.
 species from 66 Br. to 28 L + 10 Br.
- 10. Rólá or Lólá, 24 × 4 = 96 c.
 Pause 11 + 13. Usually end in L.
 12 species from 12 L to 24 Br.
- 11. Gandhá Pr. Gandhána, 17 + 18 + 17
 + 18 = 70 Syll.
- 12. Chatushpadá or Chatushpadicá Pr. Chāupaïa Cháupáā, $30 \times 4 \times 4 = 480 \text{ c}$.

 16 yerses: $7\frac{1}{2}$ ft. $4 \times 7 + L$.
- 13. Ghattá & Ghattánanda, $31 \times 2 = 62$ c. $10 + 8 + 13 = 4 \times 7 + 3$ Br. or $11 + 7 + 13 = 6 + 3 \times 3 + 5 + 4 + 3 + 2 + 2$ Br.
- 14. Shat'gada or Shat' padicá Pr. Ch'happáa, 96 + 56 = 152 c.

Cavya 24 (11 + 13 = 6 + 4 \times 4 + 2 Br.) + 4 = 96. Ullala 28 (15 + 13) \times 2 = 56. Varieties of the Tetrastich 45 from 96 Br. to 44 L + 8 Br. Varieties of the whole stanza 71 from 70 L + 12 Br. to 152 Br.

Prajjat'ica Pr. Pajjaliá, 16 x 4-64 c.
 Ind. ip'Sc.

16. Atiliha At"hillá Pr. Atilá 16 x 4-64 c. No Sc. End in P.

17. Pádáculaca Pr. Culapáä, 16×4 —64 c. $6 + 4 \times 2 + 2$ L.

18. Raddá, stanza of nine = 116 c. viz. 1st = 15 c. = 4 ft. viz. 3.+ 4+4+4. End in Sc. or Pr.

2d = 12 c. = 4 ft. End in Pr.

3d = 15 c. Eng in D.

4th = 11 c. = 3 ft. End in Tr.

5th == 15 c. End in D.

6th to 9th - Dóhá as before.

5 species.

- Pádmávatí Pr. Päumá, 32 x 4=128 c.
 ft no Sc.
- 20. Cundalicá Pr. Cundaliá, stanza of eight = 142 c

Déhá + Róli or Cinya.

- 21. Gagan'angena, 25 × 4 == 160 c.
- 20 syll. viz. 5 L & 15 Br. End in I.
- 22. Dwipadi or Dwipada, 28 × 2 = 56 c. 61 ft. viz. 6 + 4 + 5 + L.

23. C'hanjâ, 🐪 🛊 🖚 22 c.

10 ft. viz. 9 Pr. + C.

24. Sic'há, $28 \times 2 = 56$ c.

7 ft. viz. 6 Pr. + Sc. See Sanscrit metre.

25. Málí, 45 × 2 - 90 c.

11 ft. viz. $4 \times 9 + c. + 8$.

Also 25. Málá 45 + 27 = 72 c.

Ist verse, as above, 2d verse A'rya.

26. Chudicála Pr. Chulialá, $29 \times 2 = 58 c$. Ifalf the Dóhá + 5.

27. Sauráshtra Pr. Sóratt'ha, 11 + 13 + 11 + 13 = 48 c.

Reverse of the Dohá.

28. Hácali, 14 × 4 = 56 c.

31 ft. viz. 4 × 3 + L. (syll. 11 of 10.) ft, D.

Pr. or A. sometimes S. Not end in P. S.

29. Mad'hubháva, $8 \times 4 = 32$ c.

2 ft. End in Sc.

30. Abhira, 11 × 4 = 44 c.

7 + Sc. or D. + I + Sc. or Sc. + Tr. + Sc. 3I. Dan'dacala, 32 × 4 == 128 c.

4 × 4 + 6 + 2 + 8, or 10 + 9 + 14. End in L.

32. Dipaca, 10 × 4 = 40. c.

4+5+ Br. usually end in Sc.

33. Sinha'valóca Pr. Sinháláb 16×4 -

4 ft. A. or Pr. but end in A.

Plavangama Pr. Parangamá, 21 ×
 84. c.

 $6 \times 3 + 1$. Begin with L.

35. Lila'vati, 24 or less × 4 == 96 or less.

6 ft. or less: not end in A.

36. Harigita', 28 × 4 - 112 c.

 $5 + 6 + 5 \times 3 + 1$. Should begin with Prand end in S.

37. Tribhangi, 32 x 4 == 128 c.

8 ft. No St. End in [

38. Durmila franklick . A 4-128 c.

10 + 8 + 14. ft.83

39. Hira or Hiraca, 25 × 52. c.

4 ft v. 6 x 3 + 5. 4. 6.23r. or 1 L. with

4 Br. Egd in L.

40. Jalad'hara or Jakharana', 32 × 4

128 c.

Pauses 10 + 8 + 6 + 8. ft. 8. Generally ProEnd in A.

41. Madanagriha or Madanahara', 40 × 4

10 + 8 + 14 + 8 440.

42. Maha'ra'sht'ra Pr. Marahat'ra, 29 × 4 — 110 c.

10 + 9 + 11 or $6 + 4 \times 5 + L. + Br.$

Also the following kinds:

48. Ruchira', 30 × 4 = 120 c.

71 ft. end in L.

44. Calica', 14 × 4 = 56 c.

Pauses 8 + 6.

45. Va san'a, $20 \times 4 = 80 c$.

4 ft. End in C. Pause before the last.

46. Chauróla, 16, + 14+16 + 14-69 c. ft. A. o. Pr.

47. Jhallana', 37 × 4 = 148 c.

74 ft. 5×7+ L. Pauses 10 + 10 + 10 + 7.

48 Asha'd'ha, 12 + 7 + 17 + 7 = 38 c.

49. Ma'lavi, 16 + 12 + 16 12 - 56 c.

Long verse 4 ft. short verse end in L.

50. Matta', 20 × 4 == 80 c.

5 ft. ne Se.

51. Rammala, 24.× 4 == 96 o. \

6 ft.

52. Avalambaca, 13 × 4 m 59 s.

3ft. 4 × 2 + 5. End in L.

ON SANSCRIT AND

Metre rigulated by number of Syllables.

2 ft. bet on 2 syll. The species vary in the 2d ft. (3d place.

1. Simple Vactro

Le or Br + M. &c. (except Tr. & A. and, in the even verse, C) + B + L. or Br. Therefore 1st 4th & 8th syll. either long or short. 5th short. 6th & 7th long. Either 2d or 3d long.

Variations of the 1st verse 24, of the 2d 20.

2. Pat'hyā.

Ist verse as above; 2d with Sc. for 2d

ft. Hence 7th syll. short.

3. Viparita pat'hyū.

The preceding transposed.

4. Chapalá.

Ist verse with Tr. for 2d ft. Therefore 6th & 7th syll. short.

5. Vipula.

2d verse (some say Ist, others all) with 7th syll. short. Therefore 2d ft. D. Sc. H. or Tr.

5 or 7 species: Bha-vipulá, Ist verse (some say either) with D. for 2d ft. Ra-vipulá, with C. for 2d ft. Navipulá, 2d ft. Tr. Ta-vipulá, 2d ft. II. Ma-vipulá, 2d ft. M Ya-vipulá, 2d . A. B. Ja-vipulá, 2d ft. Sc.

No instance occurs with an anapæst for the 2d ft. or 3d place.

V. Acshara ch'handas or Varn'a vritta. Metre regulated by number and quantity.

Regular or uniform metre; the stanza being composed of equal and similar verses.

From one to five syllables in the verse, or from four to twenty in the stanza.

I. Ucta' or Uct'ha. $1 \times 4 = 4$.

1. Sri, g. = L. 2. Mahi, l. = Br.

II. ATYUCTA'. $2 \times 4 = 8$.

1. Stri, or Gama, 2 g. = S. 2. Rati, or Mahi, l. g. = 1. 3. Saru, g. l. = T. 4. Madhu, Pr. Mahu, 2 l. = P.

III. MADHYA'. $3 \times 4 = 12$.

1. Nárt, or Táli, m. — M. 2. Sas'i, Pr. Sasi, y. — B. 3. Priyá, Pr. Piā; or Mrigi, r. — C. 4. Raman'i, or Raman'a, s. — A. 5. Panchála, or Pánchála, t. — H. 6. Mriginda, Pr. Mainda, j. — Sc. 7. Mandara, bh. — D. 8. Camali, or Camala, n. — Tr.

IV. PRATISHT"HA' $4 \times 4 = 16$.

1. Canyí, or Tírná, Pr. Tinná, m. g. 2 S. 2. Ghári, or Háricá, r. l. 2 T. 3. Nagílicá, Lagálicá, Nagání, or Nagánicá, Pr. Nagániá, or Nagání, j. g. 2 I. 4. Satí, n. g. = P. I.

V. Supratisht" ha' $5 \times 4 = 20$.

Pancti, Acsharapancti, or Hansa, bh.
 g. = D. S. 2. Sammöhi, m. 2 g. = M.
 9. Hárítabandha, or Hári, 2 g. l. 8 g. or t. 2 g. = S. B. 4. Priyá, 2 l. r. = A. I.
 Yamaca, Fr. Jamaca, n. 2 l. = P. Tr.

Tom six to twenty-six syllable to the Verse."

I. QA'YATRI'. 6 × 4 = 24.

1. Tanamad'hyá, s y = 8 P S. 2. VIdyulléc'há, or Sécha, Pr. Séch, 2 m = 3 S.
3. Sasivadaní, or Chauránsí, a y = 2 P S.
4. Vasumatí, s = 8 P I. 5. Vanitá, or
Tilaca, Pr. Dilla, 3 = 2 A. 6. Yódha,
or Dwiyéd'hí, Pr. Vijóha, 2 r = T S I. 7.
Chaturansá, Pr. Chiuvansá, a y = 2 P S.
S. Mant'hána, or Cámávatára, (half of the
Sáranga), 2 t = S I T. 9. Sanc'hanári or
Sómaráji, (half of the Bhujangaprayáta),
2 y = I T S. 10. Málati, Sumálatí, Vasanta,
or Cáminicánta, 2 j = I P T. 11. Damanaca,
2 n = 3 P.

II. Ushnih 7 × 4 == 28.

Cumáralatitá, (2+5) jsg—I+Tr. S.
 Madaléc'há, msg—SDS. 3. Hansamálá, srg—ATS. 4. Mad'humatí, 2 ng—2 PA. 5. Sumánicá, rgl—2 TC.
 Suvása, n jl—2 PD. 7. Carahanchá, nsl—2 PSc. 8. Sirshá, Pr. Sisá, 2 mg—2 SM.

III. Anushtubh $8 \times 4 = 32$.

1. Chitrapadá, 2 bh. 2 g = 2 D S. 2. Vidyunmálá, Pr. Bijjúmálá, (4 + 4 ‡) 2 m 2 g = 2 S + 2 S. 3. Mánavaca, or Mánavacácridá, (4 + 4 †) bh. tlg = T I + T I. 4. Hansaruta, m n 2 g = S D B. 5. Pramánicá, Nagaswarupiní, or Matallicá, j r l g = 4 I. 6. Samánicá, or Mallicá, r j g l = 4 T. 7. Vitána, j t 2 g = 2 I T S. 8. Tungá, 2 n 2 g = 3 P S. 9. Camala, 2 l n r = 2 P 2 I. 10. Hansapadí, 2 g m s = 2 S T I. 11. Mátangí, m 2 l m = S T I S. 12. Rambhá, n l g m = 2 P 2 S.

IY. VRIHATED MA = 86.

1. Rajamuc'hi, (3+6) nas = C+2.
PI. 2. Baujagas'isus'rita, (7+2), 2nm = 2PA+5. 3. Bhadricá, rnr=2TAI.
4. Mahálacshmí, 3r=TSBI. 5 Sárangi, og Sa'ragi, nys=2PSA. 6. Pávitra, Pr.
Páyittá, mbh. s=2SPA. 7. Camalá, 2ns=3PA. 8. Bimbá, nsy=PTr. TS. 9.
Tómara, s2j=AIPT. 10. Rupamálí, rm=3SM-11. Manimad'hya or Maniband'ha, bh. rs=D2TI. 12. Bhujangasangatá, sjr=ASI.

V. PANCTI 10 X 4 = 40.

1. Sudd'haviraj, m * j g = S T 3 I. 2. Panava, (5+5), m n y g = S D + A S. or m n j g = S D + A I. 3. May úrasarin'i, r j r g = 4 T S. 4. Mattá, (4+6), m b h. * g = 2 S + 2 P S. 5. Upast'hita, (2+8) t 2 j g = S + 2 A I. 6. Ruemavatí or Champacamálá (5+5), b h. m * g D S + D S. 7. Manóramá, n r j g = P 4 I. 8. Sanyucta, P. Sanjutá', * 2 j g = P 2 T 2 I. 9. Sáravatí, 3 b h. g = 2 D T I. 10. Sushamá, t y b h. g = S A S A. 11. Amritamati, or Amritagati, n j n g = P A P A. 12. Hansí, (4+6), m g = 2 S T r. S. 13. Chárumuc'hí, m g = 2 S T r. S. 13. Chárumuc'hí, m g = 2 S T r. 14. Chándramuc'hí, m g = 2 S T r. 14. Chándramuc'hí, m g = 3 P A S A. 14. Chándramuc'hí, m g = 3 P A S A. 14. Chándramuc'hí, m g = 3 P A S A.

VI. Trishtubh 11 💥 4 🖚 44.

1. Indravajrá, 2t j 2 g — SIDTS. S. Upéndravajrá, jt j 2 g — 2IDTS. S. Upajáti, or Ac'hyánací, (14 species.) The two foregoing intermixed. 4. Dód'haca, Band'hu or Nílaswarúpa, 35h. 2 g — 8 DS.

5. Sáliní, (4 ++ +), m 2 12g - 4S + CT 8. 6. Vatórmi, (4 + 7 m bh. t 2 g = 2 S + A T S. Thursdayavilasita, (4-1.7+), m bh. n lg = \$5 + 2 P A. 8. Bathod'. dhatá, rnrlg - 2 TA 21. & Swagata, rnbh.2g=2TAPS. 10. Vrinta wirittá, (4+7+), 2n+2g = 3PAS. 172Sy. enicá or Stén'icá, r j r l g = 4 T C. Sumuc'hi, $(5+6\ddagger)$, n2jlg = PA + 2A. 13. Bhadricá, 2n r / g - 2 P A 2 I. Maucticama'la, Sri, Anucula or Cudmaladanti, (5+6), bh. t n 2g = DS + 2PS. 15. Upast'hitá, jat2 g = ITr. STS. Upachitra or Viséshica, 3 slg = 3 A I. 17. Cupurushejanita, 2nr 2g = 2P A I S. 18. Anavasitá, nyhh. 2g=2PSDS, 19. Mót'anaca, t2jlg - SSA. 20. Málatímálá, $Sm \cdot 2g = 4 SM$. 21. Damanaca, rnlg== 4 P A. 22. Madánd'há, msj2g=8 2 TS.

VII. JAGATÍ 12 \times 4 = 48,

1 Vans'ast'ha or Vans'ast'havila, j t j r == 21T31. 2. Indrayans 2, 2tjr = SIT3 1. 3. Upajáti, the two foregoing intermix-4. Tót'aca, 4 s = 4 A. 5. Drutavilambita, $n 2 hh. r = P 1 2 \Lambda I$. 6. S'riputa or Puta, (8+4), 2nmy = 3PS + T.S.7. Jalodd'hatagati, (6+6), j s j s = I P I+ IPI. 8. Tata or Lalita, 2 n m r = 3 P 281. 9. Cusumavichitrá, (6 + 6), n y n y 2 P S + PS. 10. Chanchala'cshicá, Premuditavadaná, Mandácini, Gauri or Pra $bh_{2}(7+5), 2n2r = 2PA + BI,$ Bhujangaprayáta, 4 y = I T S I T S. Stagvin'i or Lacshmid'hara, 4 r - TSIT ST. 13. Pramitáeshará, s j 2 A Sc. 2 14. Cántótpáidá or Jaladharamálá, (4 +8), m bh. s m = 28 + 2 P 2 S or <math>bh. m

.. m ... DS B & B: 45.74 | mideri, (5 3. 7), 2 m 2 y - M S + T 8 B, 16. Navamilini, (8 + 4), n j bh. y = 2 P2T + PS, 17, Chandravartma, (4 + 8 1), + 18 1. 2 T + P D A. 18. Priyambada, with fr —PIPSI. 19. Manianta, (6年的), v. y ty -8 PS + 8 PS. 20. Latth Th. j. -BIPST. 21. Djjwall, 2 n 6h. r - 5P T 2 I. 22. Malati or Varatanu, (5 + 7), # 2jr - PA+A21. 23. Timarage or Lag litapada, n2jy-2P2DS, 24, Lalana (5 + 7) bh. m 2 s - D 5 + D T I or bh. & ns = DS + 2PA. 25. Drutapada, n bh. ny = PISPS. 26, Vidyad'hara, (4+8), 4m = 2S + 4S, 27. Saranga, 4t = SITSIT. 28. Maucticadáma, 4 j. - IPTIP T. 29, Módaca, 4.5h, = 4 D. 30, Taralanayani, 4 n = 6 P.

ATIJAGATÍ, 13 × 4 = 59. . VIII, 1. Praharshint, (3 + 10) m n j r g = M+ 2 P 2 T 8, 2. Ruchirá, or Athruchirá, (4+9) j bh. i j g = 2I + 2PTC, 3. Mattamayura, or Maya, (4 + 9) mt ysg = 28+TIDS. 4. Gauri, 2n2rg= 3PTSB, 5. Manjubháshin'i, Prabod'hitá. Sunandiní, or Canacaprabhá, s j s j g = A I+P3I. 6. Chandricá, Cshamá, Utpalini, or Cut'ilagati, (7+6) 2 n 2 t g = P A + T SI. 7. Calabansa, Chitrayati, or Sinhanada, sj2sg = P2TPDS. 8. Chancharicavali, y m 2 r g = I 2 S C T S, 9. Chandralec'ha, (6 + 7) n a r y g = 2 P I + 2 T M. 10. Vidyut, (6 + 7) * s 2 t g = 2 P I + SIC. 11. Mrigendramuc'ha, n 2 j r g = PAP2TS. 12. Táraca, 4 s g = 3 A PS. 13. Calácanda, or Canda, 4yl = BITSIT. 14. Pancajávali, or Pancávali, bh. n2j/= D2P2D. 15. Chan'di, 2 # 2 : g = 4 P D S. 16, Pytohivati, (4 + 9) + 6h.

• jg = SI + 9 P T O.

IX. SACCARÍ, $14 \times 4 = 56$.

1. Asambád'há, (5+9) mins 2g = M5 + 2 P A S. 2. Aparajita, (7 + 7) 2 nrs ig = 2PA + IA borenralg == PTA FAI. 3. Praharanācalitā, or Calica, (7 + 7) 2 n bh. n lg = 2 PA + 2 PA. 4. Vasantatilaca, Sinhônnatá, Udd'harshin'i, Mad'humád'havi, or Sóbhāvatí, t bh. 2 j 2 g === SIPIPTS. 5. Lola, or Albia, (7 + 7) m * m bh. 2 g = SDS + SDS. 6. Induvadank, or Varasundari, bh. j sn 2 g = T P T PTPS. 7. Nadí, $(7 + 7)^2 nt j 2^2 = 2$ PA+DTS. 8. Lacshrol, met bh. 2g-5 D S T D S. 9. Supavitra, (8+6) 4 n 2 g - 4 P + 2 P S. 10. Madhyacshama, (4 + 10) or Cut'ilá, (4+6+4) m bh. n y 2g == 28+3P+28. 11. Pramadi, njbh. j lg 2 P 2 T P T I. 12. Manjari, (5 + 9) s jeylg - P2TPTSI. 13. Cumiri, (8 +6) nj bh. j2g=2P2TPTS. 14. Sucésara, nrnrlg - P21P3I. 15. Vásanti, mtnm2g=28DA2S. 16. Nándímuc'hí, (7+7) 2n2t2g=3P8ITS. 17. Chacra, or Chacrapáta, bh. 3 n l g = T 5 P I. 18, Lilópavatí, (1 + 10) 4 m 2 g - 25 + 5 8. 19. Nat'agati, 4 n 2 g = 6 P + S. 20. Co. pavati, bh. m s t lg - DSDSTI.

X. Atisaccarí, $15 \times 4 = 60$.

1. Chandrávartá, (7 + 8 ‡) 4 ns - 2 P.Tr., + P.Tr. A. 2. Málá, or Sraj, (6 + 9) 4 ns - 2 Tr. + 2 Tr. A. 3. Manigun'anicara, (8 + 7) 4 ns - 4 P + 2 PA. 4. Málini, or Nan'dímuc'hi, (8 + 7) 2 n m 2 y - 3 PS + C.T.S. 5. Chandraléc'há, (7 + 8) m r m 2 y - 2 SB + SITS. 6. Cámacriviá,

Linc'hela or Sarangich and Silvingaca, 5 m

— 68 M. 7. Prabhadraca, or Subhadraca
and Sugesara, (7 + 8) n j.hh. j run FP C +

P 3 L. Selfs, (5 + 10) sije ry — A I +

4 I T., 9. Upamálna, (8 + 7) 2 n t.hl. r =

3 P T + S A I. 10. Vipinatilaca, n s a 2 r

— 2 P I Tr. T 8 I. 11. Chitrá, 3 m 2 y ma.

3.8 M I T 8. 12. Tun'aca, or Chámana, (8 t.

L 7 Br. — 23 c.) — 6 T C. 13. Bhranárán

valí, 5 s — 6 A. 14. Manahama, e 2 j bk.

r — A I P 2 T 2 I. 15. Sarabha, or S'as'in

calá, 4 n + 1 — 6 P A. 16. Nisipála, bh.

j s n r — D I P I P 2 I. 17. Utsara, r n 2

bh. r = 2 T 3 A I. 18 Haman, (8 + 7) n 2

j t y = 2 P D 3 T S.

XI. Ashti, $16 \times 4 = 64$.

1. Rishabhagajavilusith, or Gajaturangavilasita, (7 +9) bh. r 8 ng - D 2 T +3 PA. 2. Vániní, nj bk. j rg == 2 PSTP 2 TS. 3. Chitra, Chitrasanga, Atioundara or Chanchala, (double Samanica) rjrjr! 3 T. 4 Panchachimara, Naracha or Narácha, (double Pramánica), j i j r j g == 8 T. 5. Dhfralalita, bh. rarng D 2'T P2 TA. 6. C'hagati, Nila, Lilá or Aswagati, 5 bh. g - 4 DT1. 7. Chacita, (8 4 8) bh em ing _ DAS + SDA. 8. Madanalalité, (4 + 6 + 6) m bh. n m n g = 2S+2P1+SPI. 9. Pravaralalita, ma * r g == 1982PITS. 10. Garu'daguia, # jbh. jtg = 2P2TPT al. 711. Satisfic ha. (16 or 5 + 6 + 5) bk. r n # bki g - 職 STSACODT+TPT+IA. 18: PM rayuvall, bl. by ang - DeTsaFA 13. Brahmerupaca, (double Vidyunniska,) 5 mg -85. 14. Achaladhrita, or Gityarya, 5 = 1 - 8 P. 15. Pinanilambá, (本十 5 十

7) msymsg = 28 + D8 + 5D8. 10., (18+6) msjerm = 4DaTA+748.
Yauvanamatta, (5+11) bh. 8 msg = D

10. Césara, (4+7+7) = bh. \$ y 2 y = 2

8+38D8.
S+2PA+SIC. 11 Nandana, (11+

. XII. ATTACHTI, 17 × 4, 68.

1. Sichmein'i, ' (6 + 11) y m n s bh. l g = 128 + 2 PIDI. 2. Prit'hwi, \$3 + 9) jejsydg - IP2I + Tr. TSI. S. Vans'apatrapatita, or Vansapatra, (10 + 7) ôkrada. nlg - D2TA + 2PA- 4. Harin'i, (6+4+7 or 4+6+7) n= mrsl g-2PI+2S+IAI. S. Maridacranta, (4+6+7) m bk. n 212g = 28+2PI 4 CTS. 6. Narcutaca, or Nardataca (7 + 10), or Avitat'ha (17 +), n j bh. 2 j lg-Tr. 21 + Tr. TIA. 7. Cócilaca, (7+6+, 4 t or 8 + 5 + 4 t) = Tr. 2I + PIP+ T1. 8. Hari, (6+4+7)2nmrslg =3P+2S+IAI. 9. Cántá, or Crántá, (4+6+7) y bh, # ru (g + 15+2 P I+ I A I. 10. Chitraléc'há, or Atis'ayani, (10 + 7) 2sjbh.j2g = 2A21 + Tc. TS. 11.Málád'hara, or Vanamálád'hara, nejsylg - 2 P 2 I Tr. T S I. 12. Háriní, (4 + 6 +7) mbh. nmylg == 2S+2PI+SBI. XIII. DHRĬTI, 18 × 4 == 72.

1. Cusumitalatá véllitá, (5 + 6 + 7) m t

n 3 y = M S + 2 P I + C T S. 2. Mahá
málicá, Nárácha, Latá, Vanamálá, (10 +

8 + p2 n 4 r = 3 P T S + I T S I. 3 Sud'há,
(6 + 6 + 6) y m n s t s = I 2 S + 2 P I +

8 P I. 4. Hafin'apluta, (8 + 5 + 5) m s 2

j hh. r = 8 T 2 I + A I + A I. 5. Aswa
gati, 5 hh. s = 5 D A. 6. Chitraléc'há, (4:

+ 7 + 7) m 2 x 2 t m = 8 T + P Tr. 8 +

I T M. 7. Bhramarapada, bh. r 3 n m = D

2 T 3 P A S. 8. Sárdúlalalita, (13 + 6) m

s j 1 t s = S D 2 T A + 8 P I. 9. Sárdúla,

(18+6) mejera 20 TA+Ta.

10. Césara, (4+7+7) Ebà. xy 2r = 2
8+2PA+SIC. 11 Naudana, (11+7) n j bh. j 2r = 2 PTDI+2IC. 12.
Chitrasálá, Chitraléc'há, (4+7+7) m bh.
n3y=2S+2PA+CTS. 13. Chala,
(4+7+7) m bh. n j bh. r = 2S+2PA+IAI. 14. Vivud'hapriya, (8+10+1)
r s 2 j bh. r = 2 T 2I+P2T2I. 15.
Manjíra, 2m bh. m s = 3SDSD 2S. 16.
Críd'achandra, 6 y = ITPITPITP.
17. 'Charcharí, r s 2 j bh. r = TDID2T
2I.

XIV. ATIDHRITI, 19 \times 4 = 76. I. S'árdulavicrídita, or S'árdúla, (12+7) msis2tg=SD2TA+SIC. 2. Még'havisp'hurjitá, or Vismitra, (6 + 6 + 7.) y mns2rg=12S+2PI+ CTS. 3. Panchachámara, 2, nathalterance g l - Tr. P71. 4. Pushpadáma, (5+7+7) m tn $e^2rg = MS + 2PA + CTS$. 5. Bimbá, (5+7+7) mtms2tg=M8+2PA + H S I. 6. Ch'háyá, (6+6+7 or 12)+7) y m n s bh. t g = I 2 S + 2 P I + DSI. 7. Macarandicá, (6+6+7)ymns2 jg = 128+2PI+IAL 8. Samudratatá, (8 + 4 + 7) j s; s t bh. g = IP 2 1 + PI + SIA. 9. Surasá, (7 + 7 + 5)mrbh. nyng = MTS+2PA+DI.10. Manimanjari, y bh. n y 2 j g = I S 2 P A 2 T 2 I. 11. Chandramálá, or Chandra, (10+9) 3n j 2n l = 5 P + D 3 P. 12. Dhavalanca, or Dhavala, 6 ng = 8 PA. 15. Sambhu, (7 +6+6) stybh. 2mg - AS ASA38.

XV. CRITI, 20 \times 4 == 80. 1. Suvadaná, (7+7+6) m r bh. n y bh.

XVI. PRACRITI, 21 × 4 w 84.

1. Sragdhará, (7 + 7 + 7) m r bh. n 3 y = 2 S B + 2 P A + T S B. 2. Salilanid'hi; Barani, Sidd'haoa, S'as'ivadana or Bhritai'rí, n j bh. 3 j r = 2 P T D I + 2 A 2 I. 3. Narandra, bh. r 2 w 2 j y = D 2 T 3 P 2 D 5.

XVII. A'CRITI, 22 × 4 = 88.

1. Bhadraca, (10 + 12) bh. rn rn rn g

D2 TA + I Tr. 2 TA. 2. Mailirá, or
Lalitá, 7 th. g = 6 D T I. 3. Hansi, (8 +
14) 2 m 2 g 4 n 2 g = 4 S + 6 P S.

XVIII. VICRITI, 23 × 4 = 92.

1. Až walalita, of Adritantyš, (11 + 12)
n j bh. j bh. j bh. l g = 2 P T D I + I Tr. T
D I. 2. Mattácríd's, or Va'jiváhana, (8 +
15) 2 m t In l g = 4 S + 6 P A. 3. Sundarí, (7 + 6 + 10) 2 s bh. st 2 j = A. P S + 2

PS. 2D. 4. Walatt, or Madamata, 7bh. 2g = 7DS. 5. Chittapada, 7bh. 1g = 7DI. 6. Mallica, 7 jig = 1 PTIPTI
PTIA

XIX.. SANCRITI, 24 × 4 = 96.

1. Janua, (5 + 7 + 12 or 12 + 13).bh. t ns 2 hh. n y = D.S. + 2 P A + 2 D 2 P S. 2. Durmill, 8 t = 8 A. S. Civin, 8th. = 8 D. 4. Januaci, 8 t = T S L T S I T S I T S I. 5. Madha'vica', 7 j y = I P T I P T 4 P T I P S.

XX. AticRiti, 25 x 1 100.

1. Craunchpad2, 15 4 5 4 5 + 7) bh. m

bh. 4 ng — D S + D S + 4 7 + 2 P A.

2. S'ambhu, 8 mg — 11 S M.

XXI. UTCRITI, $96 \times 4 = 104$.

1. Bhujangavijrimbhita, (8 + 11 + 7) 4 m t 3 n r s l g = 4 S + 4 P A + I A I. 2. Apaváha, (9 + 6 + 6 + 5) m 6 m s 2 g = S D 2 P + 3 P + 3 P + A S. 3. Gaurí, 8 m 2 g = 13 S.

From 27 to 999 syllables in the verse.

Dan'data, 27 x 4 == 108 to 999 x 4 == 5996.

- · 1. Chan'da r mhtipraysta, 2n7r = 2Tr. 7 C.
- 2. Practita, 2 n 8 &c. r.

 325 species from 9 to 333 feet viz. 24 Arná,
 2 n 8 r. 3d Arn ava, 2 n 9 r. 4th Vyála,
 2 n 10 r. 5th Jimúta, 2 n 11 r &c.
- Or 3. Prachita, 2n7 &c. y-2Tr. 7 &c. B.
- 4. Mattamátangalílácara, 9&c.r-9&c.C.
- 5. Sinhavicránta, 2 n 10 &c. r.
- 6. Cusumastavaca, 9 &c. s = 9 &c. A.
- 7. Anangas'éc'hara, lg lg &c. == 15 &c. I.
- 8. As'6camanjari, rj &c. == 15 &c. T. Also Sa'Lu'ra, 2 g 8 n s == \$ 12 P A.
- VI. Half equal Metre; the stanza being composed of equal and similar couplets; but the couplets, of dissimilar verses.
- 1. Upachitza, (Upajúti + Támarasa).
 1st vrne 3 s l g = S A I. 24 3 bh. 2 g = 3 D S.
- 2. Drutamad'hyá, (Dód'kacz + Timarasa). lst3bh.2g=3DS. 2dn2jy=2 2P2DS.

- 3. Végavatif (Upachitra penult Br. in let verse). 1st 3 s g = 2 A P S. 2d 3 bh. 2 g = 3 D S.
- dasica). 1st t j r g = S P 2 T S. 2d m s j 2 g = S D 2 T S.
- 5. Céinmatí. lat s j s g = A I. Tr. S. 2d bh. r n 2 g = T. 2 I Tr. S.
- 6. Ac'hyánací (Upajáti viz. alternate Indravajra and Upándravajra; some say, one verse Indravajra three Upándravajra). 1st (and 3d) 2t j 2g = SIDTS. 2d (and 4th some say 3d) j t j 2g = 2IDTS.
- 7. Viparitác'hyánací (the converse of the preceding). 1st jt j2g = 21D TS. 2d 2t j2g = SIDTS.
- 8. Harin'aplutá (Drutavilambita, one syllable) lst 3 s l g = 3 A l. 2 d n 2 bh. r = P l 2 A l.

- 9. Aparavactra (species of Validiya.cor Bhadrica + Málatí). 1st 2 n r l g = 2 P A 2 I. P2d n 2 j r = P.2 A 2 I.
- 10. Pushpitigrá (species of Aupach'handasica). 1st 2 n r y = 3 P 2 T S. 2d x 2 j r g = 2 P D 2 T S.
- 11. Yavamati, latrjrj=6 T. 2djr jrg,=5 IB.
- 12. Sic'há. 1st 28 $l_g = 7$ Tr. I. 2d 30 $l_g = 7$ Tr. P I.
- 13, Chanjá. lst 30 l g = 7 Tr. P. 2d 28 l g = 7 Tr. I.
- 14. Lalitá. 1st r s l g = 2 T 2 I. 2d sn j g = A Tr. 2 I.
- 15. Caumudí (Bhadricí + Chanchalácshicá). 1st 2 n r lg-Tr. P 31.2d 2 n2r-3P T S I.
- 16. Manjusaurabha (Málati + Manjubháshini). let n 2 j r = 2 P T 3 I. 2d s j s j g = A I P 3 I.

VII. Unequal Metre; the stanza being composed of dissimilar verses.

- Udgatá, lst verse s j s l = A I Tr. T.
 2d n s j g = Tr. A 2 I. 3d bh. n j l g = T
 Tr. 2 A. 4th s j s j g = A I P 3 I.
 varieties: viz. Saurabhaca, 3d verse r n bh. g = T D 2 A. Lalita, 3d verse 2 n 2 s = 2
 Tr. 2 A.
- 2. Upast'hitaprachupita, 1st verse m s j bh.

 2 g = S D 2 T D S. 2d s n j r g = A 2 P 2 T S.

 3d 2 n s = 3 P A. 4th 3 n j y = 5 P D S.

 2 varieties: viz. Bard'hma'n'a, 3d verse 2 n s

 2 n s = 3 P A 3 P A Sudd'havira'h ishabha,

- 3d verse t j r = SA2I.
- 9. PADACHATURURURA, increasing in arithmetical progression from 8 to 20 syll. viz. 1st verse 8, 2d 12, 3d 16, 4th 20. 6 species: viz. Apid'a, End in S Rest Br. Pratyápi'da, Begin with S or begin and end with S. Manjarí or Calicá, 1st and 2d verses transposed 12 + 8 + 16 + 20. Lavali, 1st and 3d transposed 16 + 12 + 8 + 20. Amritad'hári, 1st and 4th transposed 20 + 12 + 16 + 8.

VIII. Supplement, under the denomination of GA'T'HA'.

- Stanzas comprising four unequal verses, constituting a metre not described by writers on prosody.
 - 2. Stanzas comprising more or fewer verses
- than four; viz. three, five, six &c.
 - 3. Any metre not specified by PINGALA.
- 4. Metre not specified by any writer on prosody.

VII.

REMARKS upon the Authorities of Mosulman Law.

By J. H. HARINGTON, Esq.

THE basis of Mohummudan law, religious, civil, and criminal, is the Korán; believed to be of divine origin, and to have been revealed by an angel to Mohummud; who caused it to be written and published, from time to time, as occasion required, for the resultation of this opponents, or the instruction and guidance of his followers: though the hundred and sourteen Sowur, or chapters, which compose the Korán, were not digested, in their present form, until after the death of Mohummud; when they were collected by his immediate successor Aboo Buke; and were afterwards, in the 30th year of the Hijrah, transcribed, collated, and promulgated, by order of the Khuleefah Othma'n.

THE Korán being thus considered the written word of God, its texts, when clear and applicable, and not abrogated by other texts of subsequent revelation, are unquestionable and decisive. But, (as remarked by an eminent historian,‡) "In all religions the life of the founder supplies the silence of written revelation: the sayings of MA-

These remarks are intended to form part of an Analysis of the Laws and Regulations, for the Civil Government of the Aritish tarritories, under the Psesidency of Engels' The work is designed for the use of the students in the College of For William; and the second part, which relates to Criminal Justice, is introduced by a summary of the Mohummudan law of crimes and punishments, for the purpose of rendering more intelligible the amendments of it enacted by the Regulations of the Governor General in Council.

[†] V. SALE's Preliminary Discourse, Section III.

[‡] In Chap. L. of the Decline and fall of the Roman Empire, relative to Arabia.

HOMET were to many leffons of thush, his actions to many examples of virtue; and the public and private memorials were preserved by his wives and companions." In fact, the ordination of the Korán, in civil affairs, are few and, imperfect; and must have proved altogether inadequate to provide for the various objects of legislation, in a large and civilized community, without the aid of the Schnnut, or rule of conduct, deduced from the oral precepts, actions, and decisions, of the prophet. There were not committed to writing by MOHUMMUD; but were collected after his death, by tradition, from his companions, (the Sahahah iv their contemporaries, (Tabitan, literally, followers;) and successors (Tuba-i-tabi-teen;) and the authentic traditions, which have been preserved in numerous compilations of Ahadees, (dicta, factaque; precepts and transactions;) Sonun, (instituta vita, exemplu; rules of practice and examples;) or Riwayat, (relationes, reports;) constitute a second authority of Molulman law; conclusive (if the authenticity and application of the traditions be admitted) in all cases not expressly determined by the words of the Koran.

[•] The collections of traditions held in the most general estimation, as genuine and authoritative, by the Stimes, or orthodox traditionilia, and the followings, denominated Gibble is either; or the six authentics.

r. Babetb-i-Bakharee. Compiled by Anoo Andobillan, Monumaun, of Bekhara. He was born A. H 1943 and died in the year 256; in the suburts of Russurkand. His compilation is faid to contain above seven thousand traditions; selected from 300,000.

^{2.} Sabeth-i-Möstlim. By Asoo't Hosz'n, Mööslim, of Nyshapser. He died A.H. 261; and is also faid to have compiled his work from 300,000 traditions. This and the preceding collection, when exted together, are called Sabethy H, of the 1200 authentics.

^{3.} Sidnun-i-lin-i Mijah. By Monwamud-Bun-u utand, nun-i Ma'ja'n of Kuzueen. (Erroneoully named Bun Monuamud, in D'Hannador. Title Smin Ein Magian) He die at Kuzueen, in Irak, A. H. 273.

A Stonun-i Aboo Da sod. By Aboo Da'ood, Soly'Ma'n, of Sijistan. He was born A H 202, and died at Busrah, in the year 275. His work is stated to consist of 4,800 traditions, surely directed from 500,000.

The schiffin and differtions, however, which took place among the Mohummudans, after the demise of their legislator and sounder, of pecially the contest for the succession to the Khilafut, or pontificate, which gave rife to the Shira, or sectaries of Alex, have possioned various differential and disagreements, both in reading and interpressing the word of the Karam; and in admitting or rejecting the traditions, which compose the dual law; There appears to be an error, or verbal inaccuracy, in the Során, that of the learned, and in general accurate, translator of the Korán, that

g dand-i Tirmizee. By Aroo lerral, Morumaure, of Tirmin, in Thirdian. He is also surnamed Zureer or Dhureer, from his blindness. His birth want. Hand and his destrict and his destrict and his completion is seriously I'M entreor, under the title of Ginnales Letter and is erroneously cited (apparently from D'Herreuror,) in Hamilton's Preliminary Difficurse, page 36, as quoted in the Hiddyah; instead of the Jami-i-Rubeer, on fix-b, or jurisprudence, by Farana Morumanus.

^{6.} Jana-i Nisáze; called alfo Söönun-i Mháze. By Ango-t ann-ió Ramada Anneo; of Nisá, a thy of Eberdsán. 'Me was born' A. H. 225; and died in the year 303. This collection is felected from a former compilation, by the fame ambor, called the Siönun-i-köléré; and mentioned by D'Hanne tot, under the title of Somen Al Esbir.

The four-works last mentioned, when clied calinglively, have the defiguation of Sinun-isurba, or the four collects of traditions. The short notices, which have been given, of their compilers, and of the authors of the Saberby'n, are taken chiefly from the Mirat-Wil-dalum, an efteemed general history composed by BUEHT-YA'R KHA'N, in the reign of AURUNZE'S. They are confirmed, with many other particulars, in the Mishest, a work of authority on the traditions admitted by the Soonees; and used, as a class book, in Mosulman Colleges, with the Sabech i Bekbares, and Sabech-i Messlim. The author, SHYKH WA'LEEGO'DEEN, ARQO ABDOOLLAH, MARRIOD, who finished his undertaking (to verify and illustrate the traditions contained in a former compilation, called the Musabeeboo's bounut, by Hosz'n BIN-I Musoo,-OOD, FURA'ER) A. H. 737, states that the Mesquite of MA'LIE BIN AND, (the founder of the second orthodox sect, who died A. H. 179) is, by some reckoned one of the fix authentic collections, instead of the Stonun-i Ibn-i Majub. He adds that others are of opinion, the Darumbe, compiled by ABOO MOHUMMUD ABDOOLLAH of Sumurkund, Surnamed DA'RUMBE, who was born A. H. 181, and died in 255, should be classed as the fixth authentic. But he has himself given this place to the compilation of MOHUMMUD, the grandson of MAJAH; and it is commonly placed third in the feries, with reference to the supposed order of publication.

as of chonical authority; whereas the Shiites reject it as appropriate and unworthy of credit." From this remark it might be inferred; that the Shiya reject the traditions altogether; whereas they admit many which are not deemed authentic, and are confequently; rejected, by the Stoness. They have also their collections of Aladess, and Stones, which they deem genuine and authoritative. The difference between them, and the Ahl-i-Stonnut, or orthodox traditionists who, as remarked by Mr. Hamilton, appear to have assumed this title of distinction, in opposition to the innovations of the sectarios. They have additions, in the different authorities, which are admitted by the two sects for the Ahadees, received by

^{*} SALE'S Preliminary Discourse, Section VIII.

t Mou Lavre Sira's po'deen Aler (one of the law officers of the courts of Sudr Deswismes and Nizamet Adulut, as well as of the Supreme Court, and employed by the late Sir W.
Jones, to compile the Sheeth part of a Digest of Mosulman Law, upon contracts and inheritance) Rates the Etitibi-i urbi, or four books of traditions, held authentic by the Shiri, to be
the following:

^{1.} Tabzeeb. 2. Istibsar. Both compiled by ABOO JAFUR MOHUMMUD, of Tees in Kheritsin.

^{3.} Jand-i Kafee. By Mohummud Bin-t Yakoob. Of Ry! in Persian Irak. 1 1

^{4.} Mun la Yahzvorb vol-fukech. By Mohummud bin Alex, of Komm, also in Irak-i Ajum.

The third of these collections, which quotes the compiler of the two first, is said to have been presented to IMA'M MARDER, who was born A. H. 255. The author of the fourth compilation is stated in the Mujális Wi-Mimuneen, to have been contemporary with, and protected by, the Persian King Rokn-55'pou'lah, who died, A. H. 366.

[‡] Preliminary Discourse to his translation of the Hidayab, page 22. His observation, at length, is "the Mussulmans, who assume to themselves the distinction of orthodox, are such as maintain the most obvious interpretation of the Koran, and the obligatory force of the traditions, in opposition to the innovations of the securics; whence they are termed Soonis, or traditionists." This, however, is partly open to the same objection, as has been stated to the remark of Mr. SALE.

them respectively. The State callow maditionary credit to the Schabal. Concrompanions of their. Prophetically for the most eminent: amongs: their, of those who had the longest and most familian interest course, with Monural principles, and the Kholfári ráthideen, for the familian interest Khulesfahs, who were the inimediate successor of the Prophet made instructed by him in the principles, and tenets of his religion. Also so several intelligent and leasted men, who were contemporary with the companions and sinft Khulesfahs, and who are included in the general description of Tábisen, already mantioned; as well as to other, who succeeded these; (the Tābā-tābi-teen;) and have verified their reports of traditions, by citing the names of the persons, through whom they were successively traced to their genuine source, the inspired Apostle of God.

THE Shiya, on the contrary, give no authority, or credit, to the three first Khuleefahs, ABOO BURR, OMUR and OTHMAN; nor to any other companions of MOHUMMUD, excepting such as were partisans of ALEE. They extend their faith and obedience, however, to the admitsion of all traditions of their Prophet's sayings and actions, which they

The nature of this trustife does not admit of a fuller account of the Sames traditions; which are diffinguished by some authors as Sabeeb (authoritizated 1) Husum (approved;) Zefesf-f-Rhugeb (weak and paor;) Minkur-s-medices (denied and imposed;) by others, as
Missinud (vouched on certified;) and Missinud, or Misminud (detached or divided.) The
Missinud are also subdivided as Minifeed (ascending to the Prophets) Mishes (resing with
the Sabhbab;) and Multises (severed or out faor; among the Tubidiams) or by another classification as Missinudium (repeated, successive;) Much, beer (public, notorious;) and Wibid
(single, particular.) The Mishkit, referred to in a former note, has however been translated
by an officer of the Bengal establishment, and if it receive sufficient encouragement to repay
the heavy expense of printing in India, it will be speedily published.

believe to have been verified by any one of the twelve lastine; from whom they take their denomination of Imamayah', as well as to the precepts and examples of those imims themselves; the whole of whom they vernerate, as being the lines, descendants (through Fa'rakan), and seconding to their tenets, the gightful successors, of Members in and the last of whom they believe to be still-living, though invisible; it having been predicted of him, that he will return to judge and take the world; to punish sinuers, and those who have departed from the true faith; and to gestore and consirm the generice within of religion, with piety, justice and every other virtue.

WHEN heither the written nor oral law prescribes a rule of decision; the concurrence of the companions of Mohummud (limit & Sahdbah) is received by the Soonees, as a third fource of legal authority: and if

"The rights of the twelve Imams are given by DIHRESTOR, while the Read of Imam. He, has relio given a brief flatement, of the tenets, of the Shippy undergeho pitten of Schiells. Ali, and other titles of his valuable, though (as might be expected in fo voluminous and mist activations a work) sometignes trronemis and often imperfect compilation. A fuller account of the apprimes and profile of the Shiya is contained In the lad control Chancenits. An De. scription de la Religion des Persans, in the Amsterdam Edition of his Voyages en Perse publified in M.DCC.XI.) But the most authoptic information upon the jurisprudence of the Imamargas Vell, (which, thot having been disblished, Ver the administration of fertice, An ally pait of file Company's revitories, needs ust to be further white all in this thick with the file." nithed by the completion of a work, the first votence of which is "Affeaty printed, and which is -"A Digeth of Adobumanthy Enter, according to the relate of the Publish Anthy beingth. " led undim the Injuridance of the late. Sir Wiestwik. John Weininder, "foluntains " comprise the whole of the limitative code of fatisful delice, 'it's lenipotal indition's wild trail." " flated, from the original Arabic, by order of the Supreme Government of Bengal; With " Notes, illustrative of the decisions of other fects of Mohammudun lawyers, on many lead-" ing and important questions. By Captain John Bathere, Profesior of the Arabic and " Perfian Languages, and of Mobumhudan Law, in the College of Port William."

Kipás) in applying, by inference, the general principles of law and justice, to the various transactions and circumstances of the changesurfacene of human life; which, as they could not be all foreseen, it was impossible they should be completely and expressly provided for. This is so clearly stated, with the origin of the principal soonee sects, who agree in matters of faith, (âká eed,) but differ on points of practical jurisprudence, (fith,) in a section of the Mokhtusur có dowul (compendium of dynasties) of Gregorius Aboo's Furus, translited (into Latin) by Pocock, in his Specimen Historiæ Arabum; that the soilowing English version, will not, it is presumed, be unacceptable respecially as both the Arabic original and Latin translation, are little known in-India.*

"Or the sects (Muzáhib) which differ upon the branches, or derivative parts of the law, concerning rules of jurisprudence, and cases of disquisition, four are the most celebrated: viz. those of M'ALIK BIN-I ANS; of Mohummud BIN-I Idrees, oo' Sh'Afise; of Ahmud BIN-I Hunbul; and of Aboo Huneefah Naôma'n BIN-I Tha'BIT. The fundamental grounds of disquisition (ljrihád) are also four; the scripture

^{*} Aboo'L Furuy was a Christian, born at Malathia in Alutulia, or Armenia miner, A. C. 1226. But he wrote in Arabic, and appears to have been well versed in the religion and laws well as in the history, of Arabia. V. Pocock's specimen historiae Arabum, comprising an extract from the dynasties of Aboo'L Furus, which, Gibbon observes, "form a classic and original work on the Arabian antiquities" Published at Oxford, in 1650. Also the complete-Latin version of the original work, by Pocock, published in 1663. Gibbon has added, upon this, however, that "it is more useful for the literary than the civil history of the East." Cap. L. n. 12.

(Kitáb;) the traditionary law (Soonnut;) the concurrence of the prophet's companions (limid;) and analogy, or analogical reasoning (Kiyés). For, when any legal question arose, respecting what was lawful or unlawful, a regular investigation took place, in the following manner, First, they searched the book of Almighty God (the Kordn;) and if any clear text were found in it, such was adhered to. But, if not, they fought for a precept, or example, of the Prophet; and abided by it, if applicable, as decifive. If none such were discovered, they inquired for a concurrent opinion of the Sahábah; who, being directed in the right. way, are not open to suspicion of misseading; and therefore, if their fentiments could be afcertained, on the point in question, they were deemed conclusive. If not, an ultimate resort was had to analogy and reason; the variety of contingent events being infinite; whereas the texts of the law are finite. It thus appears certain that the exercise of reason may be proper and necessary in legal disquisition. IMA'M DA'OOD of Isfahan, however, entirely rejected the exercise of reason; whilst, on the contrary, ABOO HUNEEFAH was so much inclined to it, that he frequently preferred it, in manifest cases, to traditions of single authority. But Ma'LIK, SHAFI, îEE, and IBN-1 HUNBUL, had feldom recourse to analogical argument, whether manifest or recondite, when they could apply either a positive rule, or a tradition. This gave rise to their different opinions and judgment; which are recorded in books that treat of their disputations; yet neither infidelity, or error, is to be charged against them on this account."

THE four principal jurists, and founders of sects, among the Samees, who are noticed by ABOO'L FURUJ, have been particularly mentioned

the notes of Pocock's specimen, already reserved to; in the Bibliotheque of D'HERBELOT; and in the preliminary discourses of Sale and Hamilton. The doctrines of Ma'lik, and Ibn-1 Hunbul, are not known to prevail in any part of India. Those of Sha'fise have a limited prevalence on the sea coast of the peninsula; and are understood to obtain among the Malays, and other Mosulman inhabitants of the Eastern Islands. But the authority of Aboo Huneefah, and his two disciples, Aboo Yoosuf and Im'am Mohummud, is paramount, and exclusively governs judicial decisions, in Bengal and Hindocitas, as well as at Constantinop'e, and other seats of Mohummudan dominion in Turkey

^{*} Their names, at length, are-t. Abon Hunerfah Naoman bin-i Tra'bit; or, as pronounced in India, Sa'nit 2 ABOO ABDOOLLAH MA'LIK BIN-I-And or as otherwife read, Anus. 3. Aboo Abdoollah Mohummud ibn-i-Idrees oo'Sha'fi,leb, or a delcendant from Sha'fi,1. 4. Aboo Abdoollah Ahmud ibn-i Hunbul monly called Aboo Huneefah, meaning the father of Huneffah, and therefore is impreperly cited, in the translation of the Hidayah, by the name of HUNZEFAH only; which, moreover is a feminine appellation, and was the name of the second wife of ALEE. (Vide Tit. HANIFAH, in the Bib. of D'HERBELOT) He was born at Koofuh, about A. Hilleo; (some fay ten, and others twenty-one, years earlier,) wis instructed in the traditions, by IMA'M JA-FUR-I SA'DIK, the fixth Imam; who, as an authority for the precepts and actions of MOHUM-MUD, is esteemed by the Sonees, as well as by the Shigh; (not the Sheedh Doctor, ABOO JA-FUR, mentioned in a former note; as erroneously stated in HAMILTON'S Preliminary Discourse, p. xxin. Vid. Tit Giafar in the Rib. Or) and died in prison, at Bughdad, in the Khilafue of MUNSOOR, A H 150 The founder of the second sect is known by his proper name MA'ME. He was born at Mudeenab, between the years go and 95 of the Hijrab; and died, at the fame place, in a state of religious retirement, during the reign of HA'ROON oo'Rusheed, A. H. 179. The patronymic, Shafilee, usually distinguishes the third leader; who was born at Gaza or Atta-" len, in Palestine; in the hundred and fiftieth year of the Hijrah; and died at Caire, (where the famous SALAH OO DEEN, some centuries afterwards, founded a College, in honour of his memory and doctrines,) A H. 204. The last chief, AHMUD, is more generally called, from his father, IBN-1 HUNBUL. He was born at Bughdid, or according to some at Murv, or Muree. in Khor ásán, A. H. 164, and died at Bughdad, where he attended the lecture of SHA'FIJEE, A. H. 241.

HUNELFAH, with the illustrations, and amendments, of ABOO YOOSUP and IMAM MOHUMMUD*; noticing, after the manner of the Hidáyah, any particular opinions of the other orthodox sects, upon points of importance, which may appear to require it.

It has been remarked by Sir W. Jones, in his preface to the Siráijeeyah,† "that although Aboo Huneefah be the acknowledged head"

^{*} ABOO YOOSUF YA'KOOB BIN-1 IBRA'HEEM OOL KOOFEB, WAS born at Keefab, A. H. 113; and after finishing his studies under ABOO HUNERBAH, was appointed Kazee of. Bughdad by the Khaleefah, HA'DEE. He was afterwards, in the reign of HA'ROON oo' RUSHEED, made Kazes sol Kaszat, or chief judge; and retained that high station, (which is faid to have been first instituted for him) until his death A. H. 182-ABOO ABDOOLLAH MO-HUMMUD BIN-1 HUSUN OO' SHY'BA'NEE (of the tribe of Shy'ban) was a usually called. IMA'M MOHUMMUD, was born at Wasit, in Arabian I'rak, A. H. 13 He was a fellowpupil with ABOO YOOSUF, under ABOO HUNEEFAH, and on the death of the latter, continued his studies under the former. He is also said to have received instruction from MALLE. He was appointed by HA'ROON oo' RUSHEED to administer justice in Prik-i ajum or Persian Irak, and died at Ry', the former capital of that province, A. H. 179; or, according to the Rouxus so'righbeen, an esteemed history from the commencement to the 759th year of the Hijrab, by YAFI, IEE, A. H. 189. (See further particulars respecting Aboo Yoosur and IMA'M MOHUMMUD, in HAMILTON'S Preliminary Discourse.) ZOOFUR BIN-I HOOZE'L, and Husun BIN-I ZIYA'D, (the former of whom held the appointment of chief magistrate at Busrab, where he died A. H. 158) were also two distinguished contemporaries, and scholars, of Aboo Hungeran; and are sometimes quoted as authorities for his doctrines; especially when the two principal disciples are filent.

A work of authority upon the Mohummudan law of inheritance, translated and published, with a commentary, by Sir W. Jones, in the year 1792. This is the only part of the Mofulman Digest, undertaken by the venerable judge in 1788, which his various avocations and studies allowed him to complete. He deemed it worthy of being exhibited entire, as containing the "Institutes of Arabian law on the important title mentioned by the Brisish legislature (in the Statute 21. George III. Chapter LXX) of inheritance and succession to lands, rents, and goods." And it is of particular value to the jurisprudence of British India, 25 the Hiddyah, translated by Mr. Hamilton, does not include the law of inheritance. It has

tion is the prevailing fect, and has given his name to it, yet to great veneration is thown to Anoo Yoosur, and the lawyer Montantuo, that, when they both diffent from their master, the Moosulman judge is at liberty to adopt either of the two decisions, which may seem to him the mose consonant to reason and sounded on the better authority." This remark corresponds with the received opinion of present lawyers; and is sanctioned, for the most part, by a passage to the following effect in the Hummideeyah? "Futwas (law decisions, or opinions) are given primarily, according to the doctrine of Anoo Humaerah; next according to Anoo Yoosur; next according to Imam Mohummuo; next according to Zoofur; and their according to Husun Bin-L Ziy'and.

not been ascertained when the author of the original treatise lived. But the Kushf of Zumen, for dhuness, as pronounced in Arabia) the bibliographical work of Ha'jee Khulfam, which familhed materials for a considerable part of the Bibliotheque Grientale, (Vid. Galand's preface, p. xiv. Ed. M DCC LXXVI) mentions it, under the title of Furagid of Sujawundee in the following terms; together with the date of the commentary of Sy'yud Shureef; the substance of which is given by Sir W. Jones, with that of a recent Persian comment, by Mou'laver Mohummud Ka'sim, who was employed by Mr. Habtings to translate, from the Arabic into Persian, both the Sirajee yab and the Shuree, seyab. "The Furayid-oo' Sujawundee, composed by Ima'm Sira's oo'dren, Marmood bin-1 Abdoo'Rusheed, of Sujawund, is commonly called the Fura, eez-i Sirajee, yab. It is held in high estimation and in general use. Many of the learned flave written commentaries upon it, to the number of forty; the best of which is the comment of Sy'yud oo' Shureef Alee bin-K Mohummud, of Joorján; finished, at Sumurkund, in the year (of the Hijrah) 804 This commentary is of the first authority, and universally received. Several Scholiasts, of erudition, have given annotations upon it.

^{*} A collection of legal expositions, by ABOO'L FUT, MA, ROKN OO DEEN IBN-I HOSA'M, Mossive of Nágår, in the Dukibun; and dedicated to his teacher, HUMAD' oo' DEEN, AMMUD, chief Kûzee, of Nubr wâlab. The time when this work was compiled is not exactly known; but, though of modern date, it is held in considerable estimation. The court of Nizamut Adâlut possess a complete copy, obtained for them, with some other law books, by Lord Teignmouth, from the Nuwâb Vizeer, in the year 1997.

disciples the mosther, the Mooftee is at liberty to chase either interior preceding rule must be observed, when the Mooftee is at liberty to chase either interior preceding rule must be observed, when the Mooftee is not a scientific jurist; (and therefore not competent to judge of the opposite opinions.) This is copied from the Koonyah. In judicial decrees however a preference is given to the doctrine of Aboo Yoosur (who was an eminent judge); for Ima'm Surwhisee, has declared it safe to rely upon Aboo Yoosur in judicial matters; and that the learned have followed him in such cases; though if there he a difference between the two disciples, whichever agrees with Aboo. Hungarah must be preferred. The joint opinion of the disciples may also be adopted, though different from that Laboo Hungarah, if the difference appear to proceed from a change of human affairs; (lit. a change of men, and alteration of times;) and modern lawyers are agreed, that the doctring of civil justice."

It appears, however, that the ancient jurists held the authority of ABOO HUNERFAR to be absolute, although both his disciples might differ from him. This is stated, without reservation, in a chapter, " on the order of authorities to be abserved in practice," forming part of the

^{*} A law tract often quoted in the Futāwā-i Âālumgeeree, not known to be at present extant; and by whom composed, has not been ascertained.

[†] Shums ool Aimmah, Aboo Buke Mohummud, native of Surubbs, in Kborasan. The Moheet composed by him will be mentioned in a subsequent note. He also wrote a commentary on the Jama-i Sugheer of Ima'm Mohummud; and a comment upon the Kafee 861 Hakim, (stated in the Kushf-oo'-zunoon to have been composed by Ha'kim-i Shaheed, Mohummud, but no longer extant,) which is called Mubsoot-i Sarubbsee, and often quoted in the Hidayah. He died, at the place of his nativity, A. H. 483.

book entitled data and disconsordation of the Raze, in the Fridwall stillumgeers, or collection of have called compiled by order of the Emperor An Lumber 2. The fame chapter contains other useful information upon the rules and differentian, where which the Mosulman magical trate is empowered to administer justice; and as it is not long, a histeal translation of it is here introduced; omitting only a quotation from the Mubsoot, which being nearly a repetition of that given from the Buday-ia, the infertion of both appeared superfluous.

"IT is incumbent upon a Kazee (or judge) to give judgment according to the book of God; to know what parts of the divine book are in force, and what have been bogated; to be able to distinguish between the texts which are clear and positive; and such as a footbul meaning, having obtained a different interpretation from the learned. If no rule be found in the book of God, the Kazee is to decide according to the traditions from the Prophet. He must therefore be competent to discriminate those in force from such as have been superseded; and the spurious and invalid, from such as are genuine and authoritative. He must be acquainted with those which have obtained succesfive, notorious, or fingle, verification; and with the character and credit of the reporters of them. Because some are celebrated for their knowledge of jurisprudence (fik-h o adalut;) as the four first Khuleefaks, and the three Abdoollahs, (viz. Abdoollah ibn. 1 Omur, Ab. BLODLAH IBN-I ABBA'S, and ABDOOLLAH IBN-I Musô,ood, three of the most learned of the companions;) whilst others are esteemed on account of their long and familiar intercourse with the Prophet, and their perfect recollection of the traditions; and they are preferred according-

lynt, the former as the bast authorities on the general principles of legal science; the latter for the authenticity of marticular traditions. case arise to which mone of the traditions, desired from the Prophet, may be applicable, let the Kazes determine it according to the concurrent opinion of the Sahábah (companions), for their concurrence affords a just and obligatory rule of conduct. If there be a difference of opinion among the companions, let the Kazee compare their respective arguments, and follow those which, on investigation, may appear to him preferable; supposing him qualified to enter into such a disquisition. He is not authorized to reject the whole of these opinions, and adopt a judgment of his own, altogether novel. For the companions have agreed upon this print, that although they may differ from each other, it is not lawful to inititute new doctrines, at variance with the whole of them. Khusa'r holds the contrary opinion, that when the companions differ, the Kazee may adopt a judgment altogether distinct, as their dissention affords ground for disquisition: but what is above stated has the best foundation. When the companions have agreed upon a point, in which one of their followers (tábileen) has differted from them; if the differenter was not their contemporary, his opposition has no weight; and a judgment given conformably thereto, against the concurrent opinion of the companions, would be invalid: but if he were contempo-

^{*} IMA'M ABOO BUKE, AHMUP BIN-I OMUE, surnamed KHUSA'E, or the farrier. He composed the most celebrated of the works known under the title of Adáb eel Kázee, or duties of the Kázee; and is stated, in the Kushf oo Zuneon, to have died A. H. 261 A high encomum is added upon his composition; which is said to consist of 120 Chapters, replete with useful information. Several learned men have written commentaries upon it, of which the most effected is that of IMA'M ÔMUE BIN-I-ÂBD-OOL ÂZEEZ, commonly called Housam, the mostlyr, killed A. H. 536.

rary with them, and then expounded the law in opposition to their opinions, and they gave, fanction to his disquistions, as in the inflance of Shorr's and Shorr's the companions does not bar the opposite exposition, so admitted. With respect, however, to expositions which have no other authority than part of the Tabileen, there are two reports of the southerness of Arma Humbarania One, that he did not consider such to be authoritative; and this appears to he their true doctrine. The other, contained in the Numbers of Retes, that is some of the followers of the companions have given Falses, that is some of the followers of the companions have given Falses, that is some of the followers of the companions have given Falses, that is some of the followers of the companions have given falses, that is seen, and have received from the latter a sanction to their disquisitions; as Shory's, Hurun't algebraic or but the Moheet of the decisions. Shory's, Hurun't algebraic or the Moheet of the in the Moheet of the companions should be observed. It is thus writing, in the Moheet of the falses.

The first was Konce, the second Mossive, of Keesiah, in the first century of the Historia, and they were esteemed two of the most learned men of their age. The segment, twilose makes at length, is Aboo Omy yan Shory'n bin ool Hira's ool Kinder, held the station of Konce, at Keesiah, for seventy sive years, and died A. H. 78 or 80; after resigning his office the year before his death. The entire name of the latter is Aboo Om the Added the Shora Herles oo Share, deriving his surname from the town of Share, in Arabia. He died A. H. 104.

⁺ Ton different works of this name, (meaning) literally, here, started and specified in the Kuch of Zunon; of which one was composed by Ing a Monusemum; the disciple of Anom Hunzuphu; and is probably that here referred to. It is confidered to be of less authority than his five other works, the James suggest, James kubser, Manings, Works, and Signal which are well known, and frequently quoted, under the general designation of Zehir or Russia, put, the confiduous reports.

T Vid. Bib Or. Tit. Hassan al Basris.

A learned native of Humadan, who became a convert to LaLA'M, during the life of MOHUMMUD; and died at Koofeb, A. H. 62.

There are three works of this title; all of which are quoted in the Futhwh-i Allungeering but the two others are distinguished by the addition of Surukibes or Boorhunes. The two latter will be mentioned in a subsequent note. The Mohest, here referred to, is supposed to have

It the communication of the companions be not found in day chic, which ther followers may have egreed opons the Weste must be guided by the latter. Should there be a difference in opinion between the followers, let the Kazer echipare their arguinents and adopt the judgment he deems preferable. If, however, none of the sixthorities refeered to be fortheoming, and the Kazee be a wallfield furth; Walki delelitiked, literally, a perion capable of difficient;) the they consider in his own mind what is confound to the principles of right and fuffice; and applying the refult, with a pure intention, to the facts and chetthis flances of the case, let him pale judgment accordingly. But if he be not a qualified person, det him take a legal replinion from others who are versed in the law, and decide in conformity thereto. "He frould, in not cale, give judgment without knowledge of the law; and should never be alkamed to ask questions for information and advice. It is sufficient requilite that the Kasie attend to two rules: first, that when the three Indus (Aroo Hungsian, Aboo Yoosup, and Ina's Monumerty affragree, he is not at liberty to deviate from their joint opinion, upon his own judgment, Secondly, when the Imoms differ, Association N-1 Mosa'aux have, the Kaze's fentence is to be given according to the

heen written by Moulen name Ruzen of Nyshapeer, who, in the notes prefixed by Servic Antico-t Housever to the old copy of the Hidzyab, purchased at Makkab, is said to have compiled the opinions of the followers of ABOO HUREEFAR, in regular series; whereas other compilers had blended them. This Mobest, however, is not extant in India, and is only knowld by duorations from it.

^{*} One of the pupils of ABOO HUNEEFAH, surfactifed MUROOZEE from Muros, the place of his nativity He was held in high veneration for his piety, and his tomb is said to be visited, at Hit, in Arabian Prak. (Vid. Bib. Or. Tit. Abdalle). He died at the age of 63, A. H. 181, (Mirat col-āālum).

opinion of Ardo Hunraram, becarfe he was une of the immediate followers, and contthiporaries, of the companions, and opposed where in his fictions. So it is in the Mahou of Spacus work.

Is no precedent be found from Aboo Hunderan and his disciples, and the case have been determined by subsequent lawyers, the Kaze is to abide by the judgment of the latter, unless there be a difference in their decisions, in which event the preference is lest to his discretion. If not even a modern precedent be farthcoming, the Kazer may exercise his own reason and judgment, provided he be converted ant with sprisprudence, attained consisted with sages of the law. In the commentary of Taha'van, this, stated, that if the Kazer pass sentence on his own judgment, in opposition to the manifest letter of the law (Num), such fentence is not valid. But if the sentence be not contrary to the clear letter of the law, and the Kazer, after passing it, should change his opinion, his former judgment is, nevertheless, valid: though

The author of this work, which is extant, and held in high estimation, is stated, in the Kushf so Zunven, to be Shume ook Alexand, Anoch Buren Manusers, of Survents; then, tipned in a former note. The Mobest-i Beerhames, composed by Boomha'n oo' dann, Manusod file author. He is mentioned by D'Hrannot, under the title of Sarukhsi, as having have a boom at Survents; and living gone from shoncesinto Syrin; where he superintended a College at Aleppe; and died at Damaseus, A' H. 57t. His Mobest is known in Indian and an incomplete copy is possessed by the court of Nizamus Adalus; but it is less esteemed than that we should not Alexand.

^{† 1}MA'M ABOO JAFUR ÄRMUD BIN-I MONUMMUD, of Tahá (a town in upper Egypt) is one among the numerous commentators of the Jámã-i Sugheer of IMA'M MONUMMUD. He also wrote an abridgement of the doctrines of Aboo Hunerfah, and his two disciples, intitled Mekhtusur-i Tahávee. Both works are often quoted, as authorities; but are not known to be now extant. He is stated in the Kushf of Zunsen, to have died A H. 373.

his fluture adjudications must be regulated by his recent opinion. is the document of the two elders (Surkar whis the open of the past of the document of the contract of the con ABOO YOO'SUF,) and IMA'M Monument Myros , with them, provided the second opinion of the Kazee, in such cases, be deemed by others preferable to the first. It is further Rated (by TAHAVEE) that If the ancient jurills have formed different opinions upon any point, and their fuccessors have agreed upon the opinion to be preferred; according the two elders, this agreement does not remove the effect of the former difference; but IMA m Montimmun thinks it is removed thereby "Say kin dol Islam Shums dul 'aimh'an Surukasee, reports, however, than all the diftiples of ABOO HUNEERAH agrociff opinion apon which point, and that a few of the learned only hold the continuance of the original diffent, notwithstanding the subsequent agreement. If the lawyers of one age concur in any particular doctrine, and a Kazee, it after times, differing in opinion from them, with an upright intention, pais an opposite judgment; fome hold his fo doing to be legal, provided there were an original difference among the learned upon the doctrine in question: whilst others deem it illegal, notwithstanding such original difference: but all agree upon the illegality of the opposite judgment, supposing no difference of opinion to have been at any time entertained upon the fubject. In the Futawa-i Itabiyah: * it is stated, that if a Kazee take an exposition of the law from a Mooftee, and differ in opinion from the latter, he is to pass sentence in the case according to his own judgment; provided he be a person of understanding and knowledge; and that if

[.] The author of this work, ABOO NUSE AHMUD BIN-1-MOHUMMUD OOL ITABEE, of Bolhárá, is mentioned in the Kushf oo Zunoon as having also written a commentary on the Jama-i Sugheer of IMAM MOHUMMUD. He died A. H. 586.

the sentence be passed against his own opinion, in descrepts to that of the Mössice, it is according to the two disciples (Sastistin, viz. About Yoosur and Imaim Mohummud) invalid: in like manner as in matters of religious presence on presumption it is forbidden to act upon the judgment of others: but About Hunerran holds the sentence to be valid in such cases, as it is the result of legal disquisition. Supposing the Kázes not to have exercised his own reason on the case, at the time of his giving judgment according to the opinion of the Mossice; and that he subsequently forms an opinion, at variance with that of the Mossice; LMA'M MOHUMMUD says, his sentence is liable to abrogation, but About Yoosur affirms, it is not affected thereby; in the same sanner as it would not be affected if the Kázes had passed sentence on his own opinion, and had afterwards changed that opinion. The foregoing is copied from the Tátárkhánesyah."

"When there is neither written law, or concurrence of opinions, for the guidance of the Kázes, if he be capable of legal disquisition, and have formed a decisive judgment on the case, he should carry such judgment into effect by his sentence, although other scientistic lawyers may differ in opinion from him; and should not be governed by their sentiments, in opposition to his own: for that which, upon deliberate investigation, appears to be right and just, is accepted as such in the sight of God. If however the persons, who declare an opinion different from that of the Kázee, be superior to him in science, and he consequently adopt their judgment, without questioning the grounds of it, from res-

^{*} Vid Bib. Or. Tatarkhân. An imperfect copy of the work referred to, entitled Futawai Tatarkhanceyah, is in the possession of the court of Nizamut Adalut.

to their superior knowledge, ABOO HUNEEFAH admits the legality of his proceeding, "ABOO YOOSUF and IMA'M MOHUMMUD, on the contrary, do not allow it to be legal, unless he ultimately adopt their opinion as the result of his own judgment. This, at least, is one report: but another fays, that the master and his two disciples held, respectively, the reverse of what has been mentioned. If, in any case, the Kázee be perplexed by apposite proofs, let him reflect upon the case, and determine as he shall judge right: or, for the greater certainty, let him consult other able lawyers; and if they differ, after weighing their arguments, let him decide, as appears just. Should they agree with each other, but differ from his own opinion on the case, he is to adhere to the latter until he be convinced it is ill founded, and may give judgment accordingly; but not precipitately, or until he has duly weighed and examined the whole of the circumstances and evidence. Let him not fear or helitate to act upon the result of his own judgment, after a full and deliberate examination: but let him beware of a doubtful and conjectural decision, without complete investigation, as such will not be approved in the account of his actions to God; though, from want of certain information to the contrary, it may pass as a valid sentence among men. What has been here said supposes the Kazee to be a Moejtahid, or scientific jurist, competent, from his talents and learning, to undertake legal disquisition. If he be not a person so qualified, but possesses a knowledge and full recollection of the points and cases determined by the eminent lawyers of his perfuafion, let him give judgment according to the tenets of those in whom he confides; and whom he believes it right to follow. Should he not have a persect recollection of decided law-points, let him act upon expositions

of the law, by Möftees of the orthodox doctrine; or if them be only one such Möftee on the spot, his single exposition may be acted upon, without fear of imputed desicioncy. It is thus written in the Budayia."

"The legal meaning of Ijtihad is the diligent exercise of the mental faculties in search of the thing desired; and the requisite qualification of a Mööjtahid is a discriminative knowledge of what is contained in the book of God, and in the traditions from the Prophet, relative to legal rules and ordinances (ahkām.) It is not effential that he should also know the moral precepts and admonitions included therein. It has been likewise declared that a person whose general restitude exceeds his deviations from right, may lawfully practise Ijtihād, or disquisition. But the definition above given is accurate: as stated in the Fosool tol Imādeeyah.† The most correct account given of a Mööjtahid is, that he have a comprehensive knowledge of the divine book, with the different interpretations thereof; a full acquaintance with the traditions, their gradations, texts, and comments; a right understanding, or power of just rea-

^{*} A commentary on the Tobfut 881 Fokaha, of Shy'kh ôla oo'deen Mohummud, of Sumurkund, by his pupil, Aboo Bukh, Bin-1 Musô,00d, of Kashan, in Persian I'rak. The author of the Kushf oo' Zuneon states the death of the latter to have been A. H. 587; and adds, the master was so well pleased with the comment of his scholar, that he gave in marriage to the latter his daughter Fa'timah, who was also learned in the science of jurisprudence. The entire name of the commentary is Budayi, a oo'Sunayi, a fee turteeb of Shurayi, a. Both the text and comment are quoted as authorities; but neither is known to be now extant in India.

t By Abool fur, H Mohummud ain-i Aboo Buka, of Murgheenán. He is stated, in the Kushf oo' Zunoon, to have composed the work quoted, A. H 651, at the College sounded by Îmad ööl-Moolk, in the suburbs of Sumurkund. It contains forty sections, on civil transactions (Moâmulât) only; and being lest incomplete at his death, was finished by his son, Juma'l oo' deen. A copy is among the books of the Nizamut Adalut, and it is considered a work of authority.

REMARKS UPON THE



foning; and experience in human affairs and ulages. This is quoted from the Kafee." •

HAVING thus stated the authorities for the Mohummudan law, and the preference to be observed, or discretion allowed, when they differ; it may be proper to add a short notice of the books of jurisprudence which are esteemed by the *Hunesfeeyah* sect of Soonee lawyers, for practical exposition of the temporal law; especially such as are extant and govern judicial decisions in *India*.

ABOO HUNEEFAH himself does not appear to have left any work upon jurisprudence. His legal doctrines were recorded and illustrated by his disciples; particularly by IMAM MOHUMMUD; whose most celebrated law-tracts, entitled the Jamá-i sugheer, Jamá-i-kubeer, Mubsoot, Zeeádát, and Siyur, have been already noticed, as collectively quoted by the title of Záhir öð ruwáyát. These works are described in the Kushf oo

^{*} A commentary on the Wasce, and written by the same author IM'AM ABOO'L BURKA'T, ABDÖÖLLA BIN-I AHMUD, commonly called HAFIZ ÖÖ' DEEN, of Nusus, who died A. H. 710. He also wrote the Kunz öö' Dukáyik, a work of high authority, and extant in India; but eclipsed by its comment the Buhr-i-Ráyik, composed in the tenth century of the Hijrah by Zyn ööl Âa'BIDEEN IBN-I NUJEEM, of Egypt. Vid. Tit. Nagim of D'HERBELOT, who appears however to have stated the vear of his death A. H. 670, instead of 970; which is mentioned more than once in the Kushs oo' Zunoon.

[†] Mr. Hamilton mentions three treatifes, on theological subjects, as written by Aboo Hunelfah: viz. the Masnad, Filk-al-silm, and Moallim. Of these the Masnad is described in the Kushf oo' Zunoon, as a book of traditions. The work apparently intended as the second, but misnamed Filk-al-silm, instead of Fil kulam (on theology,) is well known in India, by the name of Fik, b-i-Akbur. The third is unknown. D'Herbelot, who seems to have been Mr. Hamilton's principal authority, mentions the three works, under the title of Abou-Hanisah.

[†] Mr. Hamilton (in his Preliminary Discourse, p. 36,) has inadvertently stated the Jamá-i-kubeer to be a collection of traditions, called also the Jamâ-i-sabeeb, by Yersoo Mo-

Zunoon as being of the first authority for the opinions of ABOO HUNEE-FAH and ABOO YOOSUF, as well as of IMA'M MOHUMMUD. Various commentaries are also stated to have been written upon them during the early ages of the Mohummudan era; and several are quoted in the Futawa-i-Aalumgeeree, compiled in the reign of Au'Rungze's, But nei-

BUMMUD BIN YESOO AL TERMAZI. The apparent origin of this mustake has been pointed out in a former note. He further remarks that the author of the Jamā-i-sugbeer is uncertain. But independently of numerous other authorities, IMA'M MOHUMMUD is expressly cited in the Hidāyah as the author of both works, and of the Mubsoot. 'See Vol I. of the translation, p. 153.) Mr. HAMILTON has been led into another error, by supposing the Mubsoot, quoted in the Hidāyah, to the en written by Fukr-ool Isla'm Buzduver; whereas, of the two Mubsoot cited by the author of the Hidāyah, one is the composition of IMA'M MOHUMMUD, above noticed; and the other was composed by Shums ool AIMMAH Surukhser, as observed in a preceding note.

* The only work known to have been composed by ABOO YOOSUF is an Adub 881 Kazee; and the reputation of this has been superseded by the celebrity of Khusar's tract of the same title, already mentioned. He is said, however, to have furnished his pupil, IMA'M MOHUM-MUD, with notes (amalee) for a considerable part of his compositions; particularly for the Jamâ-i-sugheer.

† The principal commentators of the Jana-i-sugheer are Shums ool Aimman Surukh-SEE; ABOO BUKE AHMUD RA'ZEE, commonly called Jussa's, (the plasterer;) ABOO Jafur Ahmud Taha'vee; Furr ool Isla'm Alee Buzduvee; Aboo Nusur Ahmud oul Îta'bre of Bekhara: Aboo'l Lys Nusur, of Sumurkund; Aboo Nusur Ahmun, ISBFEJA'BEE; HUSUN BIN-1-MUNSOOR, of Ouzjuna, better known by the appellation of 'Kaze Khan; Taj-öö' deen Abd dol Ghufur Kurdurer; Zuhifr öğ dein Ah-MUD TUMURTA'SHEE; and KA'ZEE MUSA'OOD, of lund; and Aboo Saeed Mootes HUR, of the same city; whose commentary is quoted by the title of Tuhzeeb The seven persons first mentioned have also written comments on the Jama-i-kuheer; besides KAZDE ABOO ZY'D ABDOOLLAH, of Duboos; BOORHAN OO, DFFN MAHMOOD, author of the Moheet-i-Böörhanee; Boorna'n o'o' Deen Alee, author of the Hidayah; Shums ool Atm. ман Мониммир, called Hukwaee (the contectioner;) Івн-і иврик јоонја прецани IUMA'I OO' DEEN MAHMOOD, of Bokbara, whole common designation is Huserake (the mat-maker;) and whose second commentary is often quoted by the name of Tubreen. The Tukreer and Döbrur are also known comments on the work in question; the former by Asoo L TABBA'S AHMUD; the latter by NA'SIROO' DEEN MOHUMMUD, of Damascus,

imperfect copy of the commentary of Ka'zee Kha'n, on the Jama-isugheer, which was obtained from the library of the Nuwab of Oudse;
and is in the possession of the Nizamut Adalut. Not is there a treatise
on the Mosulman law, written during the four first centuries of the
Hijrah, at present, in the possession of any person, from whom inquiry
could be made upon the subject, at Calcutta.*

The oldest work on jurisprudence in the possession of the law officers of the Nizamut Adalut, and other learned Mosulman lawyers, in Calcutta, is the Mokhtusur ool Kudooree, a compendiciti, or general law-tract, composed by Ima'm Aboo'l Hose'n Ahmud, of Kudoor, a quarter of Bughdad, who died A. H. 428. It is often referred to in the Hidayah, and described in the Kushf oo' Zunoon as a book of authority in general use, and held in the highest estimation. It is said to contain twelve thousand

It does not appear that any work on jurispendence was published during the first century of the Hilrah; or that any was written on the doctrines of Anon Human ran, during the fecond century, except the treatifes, which have been noticed, of his two disciples Anoo YOOSUF, and IMA'M MONUMMUD. In the third and fourth centuries, besides commentaries on the works of the latter, (which as fundamental authorities, are denominated Ossel or Orjzinal) the following law-tracks are stated to have been composed; and are briefly described in the Kushf oo' Zunoon. An Adub tol Kazes and Nuwadir, by MOHUMMUD BIN-1-SUMA'AM, who died A. H. 233. Another treatife, of the former title, by ADOO HAZIN AND DOL HUMBED, who died in 292. Several treatifes of the latter title, by IBN-I-Rödstum. HISHA'M, and others. Also books of both titles, and a compendium of the law, entitled Mekhtusur-i Tahavee, by ABOO JAFUR AHMUD of Taha in Egypt, who died A. H. 371; and who feems to be the author erroneously cited by the name of ADOO FAKA, in Mr. HAMILTON'S Prel. Dis. p. 38. Another compendium, entitled Mokhtusur-i Kurkhee, by ABOO'L HOSE'S ARDUOLLAH of Kurkh (a ward in the city of Bughdad) who died A. H. 340. And a Nuwadir, with two other books, entitled Quzoen and Nuwazil, by Aboo'l Ly's Nusue, of Sumur kund.

cales; and has been illustrated in numerous commentaries; almong which feveral are quoted in the Futáwá-i-Aálumgeeree; but are not now known to be extant in Hindoostan.

The other books in actual use for expounding the Mohummudan law are of two descriptions. The first consists of texts and comments, which, in a scientific method, state the elements and principles of the law; establish them by proofs and reasoning; and illustrate the application of them by select cases, real or supposed; such as the Hidáyah, Kunz & dukáyik, Vitáyah, Nitáyah, and Ashbahad Nuzáyir, with their respective commentaries. The second description is commonly, but not always, distinguished by the title of Futáwá; and is, for the most part, a collection of law cases, arranged under proper heads, with a short recital of sacts and circumstances, without arguments, and with authorities only for the cases as quoted; being intended chiefly for practical purposes; whereas the

^{*} The titles and authors of the principal commentaries are as follow. The Siráj-i Wuhbaj, and Jouburab-i-ny, yirab '(the latter abridged from the former) by ABOO BUKR BIN-I-ALEE, commonly called Hudadee (the blacksmith). AHMUD BIN-I-MOHUMMUD also made an abridgement of the Siráj-i-Wubháj, which is quoted by the title of Bubur-i-Zákhir. Thé Mösliumus sol ikhwun by Aboo'l MAA'leb, of Ghuzna. The Kifayah, by Shums bol AIMMAH ISMAREL, of Bybuk. The Biyan, by MOHUMMUD BIN-I-RUSOOL of Toukat. The Lobab by Jula's aboo Sared Mootunur, of Buzdah. The Yunabeed by Bude 89' DERN MOHUMMUD, of Ushbeelee,ab. The Kholdsut es' dula eel, by Hosa'm oo' DERR ALRE, of Mukkah. The last mentioned commentary is highly praised, for its utility, in the Kushf so' Zumeen, and is stated to have been further improved by the annotations of Inn & Subreh oo' deen Obica's, a native of Tartary. Mr. Hamilton, (in his Prel. Difc. p. 36, 37,) has erronenously mentioned the commentary of KUDOOREE, as quoted in the Hidayah's instead of his Mokhtusur. He appears to have made a further mistake in stating the commentary of KUDOOREE to be upon the Adub ool Kazes of ABOO YOOSUF, whereas no comment of that work is noticed in the Kushf oo' Zuncon; but Kudoeree is specified as one of the commentators of the Adub ool Kezee of Khusa'r, mentioned in a preceding note.

elementary works first mentioned are more calculated for study and instruction. The Fuláwá-i Kázee Khán by Fukr oo' deen Husun, of Oúzjund in Furgháná, who was contemporary with the author of the Hidáyah, and whose collection is esteemed of equal authority with that celebrated work, must, in some measure, be excepted from the above remark; as it illustrates many cases by the proofs and reasoning upon which the decision of them is founded.

The other Futáwá extant in India, besides those already mentioned in the preceding pages and notes, are the Entranut ool Moostieen, Futáwá-i-Buzáziyah, Futáwá-i-Nukshbundiyah, Mun'h ool ghufár, and Mokhtár ool Futáwá by unknown authors; the Foosool-i-Isturooshee, by Mohum-Mud Bin-i Mahmood, who compiled it in the 625th year of the Hijrah; the Futáwá-i-Ibráheemsháhiyah, by Sha'hab oo' deen Ahmud, a native of Hindoostan, who composed it for Soolta'n Ibra'heem Sha'h, at

A complete and accurate copy of the Futhwa-i Kazee Khun, supposed to have formerly belonged to the royal library, is among the books of the Nizumut Adulut, obtained from Lukbnow. The author of the Kushfee' Zuncon and the present Kuzee obs Kodzat, concur in extelling this work, as replete with cases of common occurrence, and consequently of particular utility for practical reference. A digest (Moruttub) of the cases recited in it is also mentioned in the Kushfee' Zuncon, as made in the seventh century of the Hijrah, by a learned Syrian, named Mohummud Bin-t-Mööstufa, and entitled Wubbajöö' Shuree ût.

[†] The court of Nizamut Adalut have a complete copy of this compilation, presented to them, with fix other law books purchased at Lukhnow, by the Kazee vol Koszát, Mohummud Nujm ŏŏ' deen. It consists of thirty sections, upon Moâmulát only: like the Föösool vol Imádees ah, beforementioned. The contents of both were arranged and incorporated in a collection, entitled Jamā vol Föösoolyn, by Budr ŏŏ'deen Mahmood; better known by the name of Ieni-Ka'zee-i-Suma'wunah, who died A. H. 823. The author of the Kushf oo' Zunoon states this work to be in great estimation with the learned, as a civil digest; but though often quoted as an authority, it is not known to be at present in India.

Jounpeor, in the 9th century of the Hyrah; and the Futawa-s Aalumgeeree, compiled at Dehly, by order of the Emperorate zungzz's (also called Aa'lumgeer) in the 11th year of his regn, corresponding with A. H. 1067.

THE Hiddyah is so well known, from the English version of it, made by Mr. CHARLES HAMILTON, and published in the year 1791, that it will be unnecessary to say much of it. The Kazee ool Koozat, in his catalogue of books already adverted to, describes it in the following terms. " The Hidayah is a commentary upon the Bidayut ool Möobtudee, and both the text and comment were composed by Shy'kh BOORHA'N OO' DEEN ALEE, son of ABOO BUKR, of Murgheenan, who lived to the age of fixty-two; and, after employing thirteen years in the composition of the latter work, departed from this world A. H. 593. The general arrangement, and divisions of it, are adopted from the Jáma-i-Sugheer of IMA'M MOHUMMUD. It is celebrated amongst the learned for its selection of law cases, and connection of them with the proofs and arguments by which they have been determined. Wherefore in every age it has been esteemed by lawyers; many of whom have written comments and annotations upon it." It is spoken of in nearly the same language, by the author of the Kushf-oo' Zunoon, who adds, "it is a rule observed by the composer of this work to state first the opinions and arguments of the two disciples (ABOO YOOSUF and IMA'M MO-

^{*} IBRA'HEEM SHAH reigned at Jounpear (during the confusion of the Empire of Debly, consequent to the invasion of Tymoor) for forsy years, and died A. H. 844. The court of Nizamut Âda'lus possess an entire copy of the work referred to; but it is a mixed collection, and not deemed authoritative.

HUMMUD); afterwards the doctrine of the great IMA'M (ABOO HU. WELFAH); and then to expatiate on the proofs adduced by the latter, in such manner as to resulte any opposite reasoning on the part of the disciples. Whenever he deviates from this rule it may be inferred that he inclines to the opinion of ABOO YOOSUF and IMA'M MOHUMMUD. It is also his practise to illustrate the cases specified in the Jámá-i-Sugheer, and by KUDOOREE: intending the latter, whenever he uses the expression he has said in the book. In praise of the Hidayah, it has been declared, like the Korán, to have superseded all previous books on the law; that all persons should remember the rules prescribed in it; and that it should be followed as a guide through life." This eulogium on the Hidayah is confirmed in a paper written by Mou'LAVEE MOHUM-MUD RA'SHID, one of the Mooftees of the Supreme Court of Judicature and Courts of Sudr Deewanee and Nizamut Adalut, as well as one of the most learned Mosulmans in India; who remarks on the text, and some of the principal comments, to the following effect. " No text or commentary, now extant, can be compared with the Hiddyah as a digest of approved law cases, illustrated by the proofs and arguments which establish them. It is therefore, with its comments, fit to be the standard of legal decision in the present times. Many commentaries have been written upon it: but four only, the Nihayah, Inayah, Kifayah, and Fut h ool Kudeer, are forthcoming in Bengal. The Niháyah was first composed: and has superior credit as being the original from which the others have borrowed. But the author of the Inayah has merited esteem by his studious analysis; and interpretation of the letter and meaning of the II.dáyah. The Kifáyah also deserves commendation, from its concise

statement of the substance of other commentaries, as well as from some additions to them. And the Futh ool Kudeer is preserved to the whole, as an ample collection of cases, (rendering it equal in this respect to a Futawa) expressed with suitable brevity of language."

THE Kunz oo' dukáyik has been already mentioned, as composed by HA'FIZ oo' DEEN, author of the Kásee and Wásee. It is a short ge-

^{*} The Niháyah was composed by Hosa'm oo'deen Hose'n Ibni Alee, said to have been a pupil of Böörha'n oo'deen, author of the Hida'yah. The latter having, from some unknown cause, omitted the law of inheritance, it has been added by the commentator. But this, part of the Nihayah does not appear to have obtained equal celebrity with the Furá, eez-i-sirajee-yah mentioned in a former note. The Kushf vo Zunoon notices two commentaries of the title of Ina'yah; the first of which was commenced by Aboo'L Aba's Ahmud, a Ka'zee in Egypt, who died A. H. 710; and was completed in the succeeding century at the Hijrah by KAZEE SAEED OO'DEEN, of Dubur. The second, which is that referred to as extant in India, Was composed by Shy'KH AKMUL ÖÖ' DEEN MOHUMMUD, who died A. H. 786; IMAM ÖÖ' DEEN AMEER KA'TIB BIN-I AMEER OMUR, who had previously written another commentary entitled Gháyutööl biya'n, after employing himself for twenty-seven years at Cairo, and other places, to render his second work more complete, finished the Kifa'yah, at Damascus, in the 747th year of the Hijrab. The Futh 881 Kudeer is stated to have been commenced by its author Kuma'l oo' deen Mohummud of Seewa's, commonly called IBN-1-Homa'm, in the 20th year of the Hijrah; and to have occupied a confiderable part of the remaining period of his life, which was terminated in 861. Other commentaries upon the Hiddyah are mentioned. in the Kushf oo' Zunoon; but as they are not procurable in India, it will be sufficient to notice the Fuwaced, by Humbed oo' Deen Albe, of Bokhara, who died A. H. 667; and is supposed by some to have been the first commentator; but his tract, being extremely brief, has been fuperfeded by the subsequent comments; the MIARA'J DO' DIRAYUT, by KUWA'M DO' DEEN MOHUMMUD, also of Bokha'ra', who died A. H. 747; and whose commentary is quoted in the Adlumgeeree: and the Odab by Kuma'l oo' Deen Mohummud, also quoted; though it is described as rather an abstract, than a comment; being a methodical collection of the 'aw cases contained in the Hidayah, without the arguments stated in proof of them. The Nihayah, vil Kifayah, by TAJOO' SHURERYUT OMUR, is also mentioned in the Kushf oo' Zunoon as a commentary on the Hidáyah; but the Kázee vol Kvozát, in describing an impersect copy of it, belonging to the Nizámut Adálut, terms it a Hásheelah, or marginal note book. An incomplete copy of the Kifayab is also among the law books of that court.

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meralife of law, used in Mosulman Colleges, as an elementary book of inflanction; but superseded, as a book of reference for legal exposition, by its commentaries; of which the following are extant in India. The Tubicen ool hukayik, by Fukk ob Deen Aboo Mohummus Osma'n of Zyld; who died A. H. 743. His comment is valued by the followers of Abord Hunkeran, as containing a complete refutation of the opposite doctrine of Shafises. The Buhr & rayik, by the learned ZY'N OOL AA'BIDEEN IBN-1 NUJEEM OF Egypt, left incomplete, at his death, A. H. 970; and unequally finished by his brother SIRAJ 60' DEEN OMUR, who also wrote a commentary entitled the Nuhr-i-fayik, but of inferior merit to that of Zy'N OOL AMBLUEEN; which is held in the utmost estimation; and is spoken of in the Kushf do Zunoon as equalled only by the Fut h ool Kudeer, IBN-1 Homa'm's commentary on the Hidáyah. The Mutlub-i fáyik or, as more generally called Aynee by BUDR OO' DEEN MOHUMMUD AY'NEE, of Dubur in Arabia. This commentary is also esteemed, as containing an ample collection of law cases: and though surpassed, in this respect, by the Buhr-i-rayik, it has the advantage of having been brought to a conclusion by the author; whose erudition obtained him the title of Ulamah, in common with Zy'n dol AA'BIDEEN.#

^{*} Another commentary on the Kunz bo duka'yik, entitled Kida'dun, is known in India. But the name of the author has not been ascertained. The Kosa'b by Shy'kh Yahya', and Rumz wil Huka'yik by Ka'zee Budr oo'deen Mahhood, are also noticed, with the names of some other commentators, in the Kushf oo' Zunoon; but they are not celebrated, or quoted as authorities. The court of Nizamut Ada'lut possess an incomplete copy of the Buhroo' rayik; on which the Kazee wil Kwzat remarks (in his catalogue) that "it comprises a compilation of cases, general and particular; with the useful result of the author's researches upon a variety of legal questions; and is received as authentic by the followers of Aboo Hunbefah in every city of Islam.

The text of the Pikáyah, composed in the 7th century of the Hijith by Boorma'n 60' Shureeut Mahmood, son of the first Sudi A Shureeut, like that of the Kunz & Dukkyik, has been superseded, for legal consultation, by its more extensive commentaries; especially by that of the second. Sudr & Shureeut, Oby'd oollah bin-1 Musadod, who died A. H. 750; distinguished by the title of Shurk-i-Vikayah; and combining, with the original treatise, an ample comment in illustration of it. But both are used in Mosulman Colleges, for instruction in the science of law, preparatory to the study of the Hiddyah; upon which the Vikáyah is sounded; being as its title at length imports, (Vikáyut & riwáyah, see Musácel & Hidáyah;) the Custos, guardian, or preserver, of the reports of cases in the Hidáyah. Other commentaries are mentioned in the Kushf & Zunoon; but they are not known to be extant in India; or quoted as authorities.

^{*} Numerous Huwashee, or besks of annistation, have also been written on the text and commentaries; of which the most celebrated is the Hasherab of YOOSUF BIN-I-JONY D, commonly called AKKEE CHULPER. This work, entitled Zukheerut 381 Okba is in the possession of the court of Nizamut Adalut, who have also a correct and complete copy of the Shurh-i-Viláyab. It may be useful to add that a Persian translation of the latter has been made by a person named ABD GOL HUK SUJA'WUL, of Surbind; who in his preface, states it to have been completed A. H. 1076; during the reign of Au'RUNGZE's. A copy of this version is in my possession. The language is not elegant; but it bears the character of accuracy; and with? a careful revision, it may deserve publication. In bulk it does not much exceed a fourth of the Persian version of the Hidayah; made by the former chief Kazes, GHOLA'M YUHYA' KHA'N, and his learned affociates, employed for that purpose under the patronage of Mr. MASTINGS; a revised edition of which, under the superintendence of Mou'LAVER MORUM, MUD RASHID, is now printing, at my fuggestion, by order of Government; and besides facilitating the study of the Arabic text, will tend to explain and correct the English translation; which, though on the whole deserving of praise, has been found in some parts inaccurate, and in many less intelligible than the Persian version. It may be proper to add in this place, that in noticing, for obvious reasons, what has appeared upon inquiry to be erroneous of deficient

THE Nikayah was abridged from the Vikayah by the fecond-Swam abo SHURELUT, already mentioned as the principal commentator on the Vikáyah. It is alfo cilled Mokhtusur-t.Vikáyah; and used as a book of instruction; the rules and cases contained in it being committed to memory by the student. But its utility, for legal reference, is superfeded by its commentaries; of which three are extant, composed by Abdo'L Muka'rım bin-i Abdorllah, A.H. 907; by Abdol Alex, Bin-i-Monummup Birjinder, in the year 935; and by Shums od dern MOHUMMUD, of Khoristán, in 941. The whole of these comments are held in esteem; but the latter, enfittled Jame & rumes, is the most copious.*

THE Ashbah o Nuzayir is an elementary treatile, composed in the tenth century of the Hijrah, by ZYN OOL AABIDEEN, already mentioned as the author of the Buhr-i-rayik. It is stated in the Kushf oo Zunoon to confilt of feven lections, (denominated fun); the two first of which relate to the general principles and rules of law; and the Kazee tol Kozát, in describing a copy of it, which belongs to the Nizamut Adalut. observes, that " although a short tract, it contains legal principia, from which numerous cases may be deduced; wherefore to able lawyers it is of the utmost advantage." Thirteen commentaries upon it are noticed in the Kushf oo' Zunoon, but none of them are known to be in India t

in the fate Mr. HAMILTON's translation of the Hidayah, no intention whatever is entertained of impeaching the personal merits or reputation of that gentleman; who laboured under a material disadvantage in not having completed his arduous and laudable undertaking in India.

^{*} Complete copies of the three commentaries are among the books procured from Lukbness, for the court of Niza mut Ada'lut.

[†] Mou'laver Mohummud Ra'ship possesses two commentaries on the Ashbah e Nuze'yir,

BESIDES the texts and commentaries above described; as in actual use for legal expositions, the Mujmā &! buhryn, a text book composed by Mozureur oo! Deen Ahmud, of Bughāād, A. H. 690, is also in the possession of a learned Mosulman in Calcutta, * together with one of its commentaries, written by Abd oo Luteer Bin-1-Abd obl Azeez; but so no other copy of either the text or comment is known to be forth-coming; they cannot be in general use. †

one of which, called the Ghumzööl Öyoo, was written by Syyrid AHMUD BIN-1-MOHUM-MUD HUMAVER. The author of the sheriotenknown.

MOULAVEE KUREEM ÖÖ' DEER, by whom (in concert with Mos'LAVEE MORUM' MUD RA'SHID) I have been materially affilted in preparing the short account given of books on the Michaemudan law; and who has made for one a complete Pervian translation from the Arabia original of the Kuree So Zuneen. He received the Mujmā-ööi bubry'n, and its commentary, from Shura' but Mohumud Kha'n, Meer Mossebes to the Nuwa's Mozuf-pun Jusic; who supported a Mudrusah at Mooribidabid, in which Kurbem öö' dern was Modures or Lecturer.

[†] In addition to the books on jurisprudence, which have been noticed; the following are described in the Kuthf W Zunenn; but none of them are known to be at present in Mindoutan. The Ajnas and Akka'm, by ABOOL ABA'S AHMUD NATIFEE, who fied A. H. 446; the Tujnees o' Muzeed by the author of the Hidayab; the Havre 387 Huseeree by Monummud-Bin-1-IBRAS HERM, of Husser, who died A. H. 505. The Futawa-i-kobbraby Shaheed Hisa'm 50 Deen Catte, who suffered martyrdom in the 336th year of the Hijrab. The Kholdsut Wil futuwa, by TAHTR BIN-I-AHMUD, of Bekhara who died A. H. 542. The Millinkut, by NA'SIR Oo' DEEN, ABOOL KASIM, of Sumurkund; finished A. H. 549. The Haves stil Kindses by Ka'zze Juman 55' Deen Ammud of Ghuzne, who lived in the latter part of the 6th century of the Hifrab. A Tulkbees (abridgement) of the Jama-i-kubeer, by Komal oo' Dren Monummun. of "Rhilat, who died A M. 642. The Mokhiar, and its commentary, the Ikhliyar, by Mujo 56' DEEN ABDOOLLAH of Mweel, supposed to have flourished in the 7th century of the Hijrah. The Chorur Wi Abkam, and its comment, the Doorur sol bookham, by Montomwod Bik-r Fura'moorz, commonly called Moolla Khōŏsró, who died A. H. 887; and the Möötukk Wi Ather, by Ibrahrem Bin-i-Mohummud Chulpee (a Sprian) finished A H. 929. Of these works the three last mentioned only are text books. The remainder (excepting the sbridgement of IMAM MOHUMMUD's great Jama,) are collections of cales, of the risture of

require further notice, except the Futáwá i- Aálumgeeree. Mr. Hamilton, by an extraordinary mistake, has stated this work to have been composed in the Persian language, by the authority and under the inspection of the Emperor Au'aungze's; whereas it is well known to have been written in Arabic, the usual language of Mohummudan law, and science; and to have been translated into Persian, by order of the Emperor's daughter, the Princes Ze's oo' Nisa'. Several copies of the Arabic original are in Calcutta; and some impersect copies of the Persian version; or rather of parts of it. In the catalogue of books appertaining

Futáwá. A further collection, entitled Kbuzanut-sol futário, by Armud ben-t-Monum-mud, is among the books of the Niza'mut Adálut, and supposed by the Kázee sol Köbzát 'to have been compiled towards the end of the 8th century of the Hijrab. Also a Persian compilation, named Futâwa, b-Kurakbánee, the cases included in which were collected by Möörla Sudr öö' den bin-i Yakoob, and arranged, some years after his death, by Kura' Kha'n, in the reign of Sooltan ula' öö' den. The Kázee sol Köözát has likewise presented to the Nizámut Adálut a small Persian book, entitled Mokhtár sol Ikhtiyár, written A H. 972, by Ikhtiyár son of Gista's öö' den Husun; containing, besides the duties of a Kázee and Mööstee, legal forms of verious descriptions for practical use.

^{*} Preliminary Discourse, p. 44.

[†] Mr. H. Colebrooke possesses a folio volume, containing about half of the entire translation, from the commencement to the book upon evidence. I have also a volume which contains from the book on marriage, to that upon endowments, or religious and charitable appropriations. And, at my suggestion, the Governor General in Council has been pleased to instruct the Resident at Debly to endeavor to procure two or more complete copies of the Persian version made by order of Ze'boo' Nisa', with a view to prepare a collated transcript, which may be hereafter printed and published. I have likewise a correct Persian translation of the book on Jinayat or offences against the person, made for me, a saw years since, by Mou laver Saeed dodden, (now law officer of the Bursly court of circuit) under the superintendence of his father, the Kazee of Kosaat, who has added notes of explanation where they appeared requisite. This version will probably be printed and published, as it wall does serves to be.

to the Nizamut Adalut (among which is an incomplete copy of the Arabic Fulawa. Aalumgeeree) the Kazee ool Koozat describes this work in the following terms: -- "It was commenced A. H. 1067, corresponding with the fith year. of AA'LUMGEER's reign. Credible persons have related, that when MEERZA' KA'ZIM, author of the Aálumgeernámah, had finish. ed, and presented to his Majesty, the history of the first ten years of the reign, it occurred to the King that there were many books of history in the world, and that from the inclination which mankind have to read fuch books, they are composed without orders from Kings and Nobles; that the foundation of good government is justice; and that this depends upon a knowledge of the ordinances of the law; that although the learned of every age had compiled expositions of the law, yet in some instances the examples were so dispersed that they could not readily be found, when required; and in others, the cases of less weight were not distinguished from those adjudged to be authoritative; whilst some decisions also had been unnecessarily repeated; and others, though requifite, had been omitted; wherefore it was proper that, in the prefent reign, a new Futdwá should be compiled, to be arranged in the most approved manner; and to contain the most authoritative decisions of law, including every useful case, which had been adjudged, without repetition or omission. As soon as the King had formed this design, he ordered MEBRZA' KA'ZIM to discontinue writing the Aálumgeernamah; and not to take in future the fum allotted for it from the royal treafury. He then affembled a number of eminent lawyers from the Punjáb, the environs of Sháhjahán-ábád, Akbur-ábád, Ilah ábád, and the Dukhun; and employed them in compiling the work, which was afterwards called the Futabod.i-Adlungeeree. In truth no other Futawa is equal to it in excellence. It has become celebrated in every city, as well in Arabia as in other countries; and is termed at Mecca the Futawa-i-Hina, or Indian expositions. It is esteemed by the learned of every country, and is received as an authority for law decisions in this empire." It is added, that six lacks of rupees are said to have been disbursed in stipends to the learned compilers, the purchase of books, and other expences attending the execution of the work.

THE Futawa i-Aalumgeeree being jour times the fize of the Hidayah, and containing little more than a recital of law cases, without the arguments and process, which are diffusively stated in the Hiddych, it must possess an advantage over that work, for practical use, in its greater number of cases and examples. On the other hand, full illustration of the law, its principles, and the different doctrines promulgated by some of the most eminent expounders of it, which distinguish the Hidáyah, give an evident preference to it as a book of elementary instruction. The authority of the Hidáyah, as an original composition by a celebrated jurist, who, from his superior knowledge and qualifications, was esteemed a Mojtahid, is also above that of the Futawa 1-Aalumgeeree; which, however valuable, as the latest and most comprehensive collection of cases, is held in less comparative estimation, from its being a modern compilation, made by feveral persons, of different judgment, and unequal ability. Without contrasting their respective merits, however, the one is universally admitted to be a most useful supplement to the other; and a conversance in both, or an easy means of reference to them in cases of judicial occurrence, must be of essential use towards the due administration of the Mohummudan law, as far as that law is declared to be the established rule and standard of decision.

Of the fixty one books enumerated, fifty five correspond with similar titles in the Hidáyah. Two other books in the latter work, entitled Diyut (the fine of blood), and Mu, Lukil (exaction of the fine of blood), are included in the F. Alumgeeree, as chapters of the book of Jináyát. The book of Shirb in the F. Aulumgeeree forms a section of the book entitled Iby'à vol muwát in the Hidáyah. The remaining five books of the Futáwá-i-Aulumgeeree, viz. those entitled Tuburree, Muházir o Sijillát, Shovroot, Hiyul and Furá, eez, are not included in the Hidáyah.

The general division and arrangement of both the Hidáyah and Aúlumgeeree appear to have been adopted from the Jamâ-i-Sugheer of lma'm Mohummud. The same order is also observed in most other works written by the followers of Aboo Huneefah; and the author of the Buhr-vo-ráyik has endeavoured to shew that it is founded on a principle of suc-

^{*} Mr. HAMILTON'S translations of the Hidayap renders it unnecessary to state the general contents of that work. The Futawa-i-Aalumgeeree confists of by books (Kitab) in the following order:- 1. Tabarut, purification, 2. Sulat, prayer. 3. Zukat, alms. 4. Som, fatting. 3. Hujj, pilgrimage. 6. Nikuh, marriage. 7. Ruzud, fosterage. 8. Tuluk, divorce. 9. Utak, manumission. 10. Ayman, vows. 11. Höbdood, fixed penalties. 12. Surikab, larceby. 23. Signi, institutes or regulations concerning infidels, apostates, and rebels. 14. Lukeet, soundlings. 15. Lösktah, troves. 16. Ibák, absconding of flaves. 17. Muskood, missing persons. 18. Shirkut, partnership. 19. Wukf, endowment; or religious and charitable appropriation. 20. Byú, sale. 21. Surf, exchange of coin or bullion. 2. Kufulut, bail. 22. Huwalut, transfer of debts. 24. Adub vol Kazer, the duty of a Kazer 25 4, evidence. 26. Roojoo, a un Shahadut, retraction of evidence. 27. Vukúlut, agency. 48. Dáwá, claim. 20. Ikrár, acknowlegment. 30. Sool, h, composition. 31. Macarubut, copartnership in stock and labour. 32. Wudee, ût, deposit. 33. Aaeeyut, lending without return. 34. Hibah, gift. 35. Ijarah, hire and farm. 36. Mokatub, covenanted flate. 37. Wula, connection of emancipator and freedman; or of patron and client. 38. Ikráh, compulsion, 39. Hujr, inhibition and disqualification. 40. Ma-200n, licenfed flave, and ward. 41. Ghush, usurpation. 42. Shoofah, right of vicinity. 43. Kismut, partition. 44. Mezára, út, compact of cultivation. 45. Med, ámulut or Mosákát, compact of gardening. 46. Zubayih, animals slain by Zubh, or incision of the throat. 47. Oazheeyah, sacrifice. 48. Kuráhiyut, abomination, disapprobation, or censure. 49. Tuhurre, presumptive preference. 50. Ibyá öbl muwát, cultivation of waste land. 51. Shirb, right to water. 52. Ushribah, intoxicating liquors. 53. Syd, game. 54. Rihn, pledge. 55. Jinayat, offences against the person. 46 Wusáyá, testamentary bequests. 57. Muházir ó Sijillút, judicial proceedings and decrees. 58. Shooroot, legal forms. 59. Hiyul, legal devices. 60. Khoana, hermaphrodite. 61. Furá, eez, rules of inheritance.

coffive connection. But his reasoning does not appear satisfactory. It may be useful to add, however, that the Mosulman law, in the most extensive sense of the term (Shura, or Deen-i-islam) comprehends the ordinances of religion, and the duties of man towards his Creator, as well as his rights and obligations towards his fellow creatures. It is therefore stated in the Buhr-i-raysk to comprise sive principal heads; namely, r. Idihadat, articles of faith. a. Ibadat, acts of worship and piety: 3. Meaamulat, affairs of life, or civil transactions. 4. Muzajir, punishments for the prevention of crimes. 5. Adab, manners, or rules of behaviour. In books of jurisprudence (fik-b) the first and last heads are omitted. The other three are included; and the head of Ibadat always precedes the Meaamulat, and Muzajir, as of superior importance.

VIII.

An Account of Astronomical Observations taken at the Honorable Company's Observatory, near Fort St. George in the East Indies, in the years 1806 and 1807. To which are added some Remarks on the Diclination of certain Stars and of the Sun, when near the Zenitii of that place.

BY CAPTAIN TO HN WARREN,

OF H. M. SSd REGIMENT OF FOOT.

- 1. MAJOR LAMBTON having fent his zenith sector to the Madras Observatory in September 1806, I began early in the ensuing month the observations which som the subject of the present paper. As an account of this instrument has already been given to the public, in a paper written by that gentleman, and published in the 8th volume of the Asiatic Researches, I shall only observe here that it came to me in high order, and that I observed constantly with it from October 1806 to June 1807, without perceiving any material change in its powers or mode of performing.
- 2. In undertaking a feries of observations of zenith distances. I had in view to establish permanently the latitude of the Madras Observatory, on which there seemed still to be a doubt of several seconds, and also to verify the declination of several stars near the zenith, which,

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when used for obtaining the latitudes of places, disagreed in their results,

- 3. This laborious and dry enquiry, I am aware can afford but little entertainment to the generality of readers. The present paper, therefore, can only claim the advantage of recording good observations, taken in great numbers, and computed with scrupulous attention: and perhaps of affording some data to astronomers in other climates, for further investigation into the effects of refraction.
- 4. ALTHOUGH the method for correcting zenith distances at any given time, for abberration, nutation, and solar equation, is well known to astronomers, yet I do not omit giving a general statement of the manner in which I have applied these various corrections to my observations. Such as belong to Regulus are given in Table I. and may serve as an example for the rest. For the detail of each respective rule I must refer the reader to books of astronomy, for I have nothing new to offer on the principles upon which they are grounded.
- 5. I HAVE however to observe, that refraction being one of the subjects under consideration, I have computed it separately for every star, according to Dr. BRADLEY's theory, in which the state of the atmosphere at the time of observation is considered, and without any reference to the tables. The rule may be found demonstrated in Vince's Complete System of Astronomy, Chap. VIII. page 82, and following. I have reduced it, for a more convenient arrangement, into the following form:

TABLE I.

Shewing the Process of deducing the Latitude from the observed Zenith Distances of Regulus.

Months and Days.	Star's A. R.	Star's A. R. Longstude.	Place of	Star's Declin.	Apparent Time of Transit.	Precession	Nutati.	Abben at.	Solar Equation.	Total Equation for Declin. Z. Diet	- 1 -	fore of Limb.	Observed Zenith Distance.	Corrected Zenith Distance.
	. DO - 01	0 10	٥	20.78			1 1 1	1 "0	1 8	100	1 8	†-		
. 10. . 20. . 20. . 20.	4 13 SS 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	8 6 8 49	8 19 40	12 54 26 . 104	17 49 0.2	52 . 132	6.500	1.213	0.019	10.588	40.588	3 C	9.26.5	0.9 16 293
99	4 29 31	8 8 10	9	54 26	32 25	33	6.506	1.449	₹ 6.	40 .959	959		900	
Dec. 1.	4 29 31	01 6 8	6	54 26	ر- 32	3	019.9	1.562	0.101	41 . 140	유		9 51	
₹.	4 29 31	S 25	9	54 25	15 9	33	6.519	026.	0.154	102.14	<u>5</u>	_	9 51	
10	4 29 31	20 20	10	54 25	48 56	3	6.539	2.013	192.0	42 .807	203		9 51	
11.	4 29 31	8 19 19	20	54 25	44 33	<u>ਤ</u>	6.543	187.8		42.983	983		10	19
16	4 29 31	8 20 19	32	54 25	6	<u> </u>	010.0	. 28.33	0 508.0	43 . 192	192		9 53	2
17.	4 29 3I	8 25 24	3	54 25	18 5	<u>ಜ</u>	6.508	3.577	985. O	44 .049	65		3 0 1	=
18	4 29 31	8 26 25	20	54 25	13 39	33	6.505	ر ا ا	901.0	44 .219	916	_	9 52	
19.	4 29 31	8 27 26	œ	54 25	†I 6.	33	6.568	3.553	121. Ú	985. ‡	88		10 3	6
21.	4 29 31	82 83 83 83	20	54 25	0 23	33	6.573	386.	0.457	14.727	727		9 54	6
83	4 29 31	0% 0 6	20	24 24	35 56	33	8.5.9	\$68°	0.474	44 .902	86	_	10	8
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27.	4 29 31	9 5 84	22	54 24	33 48	ᆶ	6 .595	4.358	0.547	45 .691	169	_	9 55	
.07 Jan. 2.	4 29 31	0+ 11 6	=	75 75	7 80	ま	9.611	186.	0.690	46 .695	693	_	9	
<u>ي</u>	4 29 31	17 6 6	=	34 84°	9 50	ਲ -	6.615	2.000	0.641	46 .7:1	E		10 5	
10.	15 65 7	8 61 6	1	ţċ	35 51 51	**	6.623	5.549	0.705	83. IF	88		10	

Begults.

		0 9 14'.326		150.0 +	7 00.0		9 14 .504	12 54 58 .930		13 4 13.434			see parag. 5	•
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7	Right Arc.	919.01 6 0	0 9 10 360	0 9 9.549	0 9 8 .693	899.01 6 0	13% 8 60	0 9 9.273	0 9 10 309	0 9 9.505	0 9 9 629	0 9 19 .023		00 11 00
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	1806-7 Left Arc. 1806-7	0°9 16 .293	0 9 17	710.01 60	0 9 17.951	111.61 6 0	0 9 18 .008	0 9 18 .836	0 9 18 .223	9 16 .659	0.9 19.02			
	1506-7	Nov. 26.	33	Dec. 11.	11.	<u>e</u> .	25.	: -:::::	Jan. 5.	10.	Mean, 0			

Corrected Refraction R =
$$\frac{\text{Tangt.} \overline{Z} - 3r \times R^{2} \times \overline{A} \times 400^{4}}{h + 350^{4}}$$

The following example will shew the notation.

Crample.

The mean observed zenith distance of Regulus by observations is 0. 9' 14.326 = Z.

The refraction due to 45° altitude, as established by experiments, and very near the level of the sea is 50" = R'.*

The mean altitude of barometer at the time of observing was 30.035 inches = a.

The general medium height of Mercury is 29.6 = A.

Tangt. $Z = 0^{\circ} 0' 14''.326 \log$.

The mean altitude of thermometer at the time of observation was 71° , = h.

Rule.

7.4293310

$$3r = 0.402 R' = 50' \log. 1.6989700$$

$$9.1283010 N. N. 0.134$$

$$3r = 0.402$$
Tangt. $Z - 3r = 0^{\circ}$ 9' 13".924 log. 7.4290229
$$R' = 50' \log. 1.6989700$$

$$\frac{4}{4} = \frac{30.035}{9.6} \log. 0.0062636$$

$$400 \log. 2.6088284$$

$$h + 350 = 421 \log. 2.6242821$$

$$h + 350 = 421 \log. 2.6242821$$

$$Corrected Refract. R = 0.131 N.N. 9.1188028$$

The quantity R', which represents the refraction due to 45° altitude '(where Rad. = 1) is given in Bradley's Tables = 57". But for obvious reasons I have preserved Le Gentile's quantity, as his experiments at Pondicherry appear to me unexceptionable.

which quantity o".131 is entered on the IK, column of Table II. and fo of the rest.

- 6. I was at first doubtful respecting the best mode of obtaining a very accurate mean latitude for the Observatory, and hesitated between making a selection of a certain set of stars whose declination was determined at Greenwich after the same method, and with the same instruments; or taking the whole mass of my observations without adverting to the catalogues either English, French, or German, from which I had taken the declinations.
- 7. HAD the whole of the stars given in Table III, been computed when I began writing this paper, I might have been induced to think the separate catalogue in Table II. unnecessary, since the two means only differ by 6".361. However, I was, at the time, determined by an opinion that the refults of a few very accurate operations were always preserable to the mean of a great number of indifferent ones, and chose therefore twelve principal stars (six on each side of the zenith) the declinations of which are given in Dr. MASKELYNE's catalogue for January 1802. With these I constructed Table II, to which I particularly wish to call the attention of the reader, as every thing that I shall say hereafter is grounded on the mean latitude which is derived from it.
- In this catalogue, the maximum of deviation in the respective latitudes is only 4".551, and their gradual decrease as the stars become more foutherly indicates that this difference is not folely to be attributed to inaccuracy in the observation; for it is to be observed that the regularity of this decrement (which is scarcely interrupted) cannot al-

TABLE II.

Shewing the Latitude for the Madras Observatory such as derived from 12 Principal Stars.

XIII.	Mess Laf- tude.	13 4° 13° 694.
XII.	Mean by Northern and Southern Start.	S 4' 14" 791 S 4 18 587
XI.	Latitudes.	13. 4.15. 736 15.077 14.836 13.915 13.413.434 13.255 11.051 11.051 11.051
, X.	Corrected Ze- nith distances.	7. 7. 587. 690 3- 3. 2. 9. 905 3- 2. 35. 33. 485 1. 35 3- 1. 33. 12. 158 1. 5 3- 1. 1. 47. 991 1. 147. 991 1. 147. 991 1. 147. 991 1. 147. 991 1. 147. 991 1. 147. 991 1. 147. 991 1. 147. 991 1. 147. 991 1. 147. 991 1. 147. 991 1. 147. 991 1. 147. 991 1. 147. 991 1. 147. 992 1. 147. 993 1
IX.	Refraction.	6. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.
VII. VIII	of Baronicler dur. Observal. Thermometer.	25 77 77 77 77 77 77 77 77 77 77 77 77 77
VI. VI	Diserved Zen. Mistances cor- ected for Ab- fer. Nat. and a Solar Equati-	7. 7. 52. 639 99.975 3. 2. 7. 348 99.985 2. 35. 31. 388 90.019 1. 33. 10. 370 99.942 1. 5. 22. 312 29.966 1. 1. 47. 135 99.966 0. 9. 14. 396 30.035 0. 21. 22. 362 99.993 4. 42. 15. 821 99.862 5. 42. 29. 526 30.035 6. 1. 8. 009 99.993 7. 21. 5. 552 90.035
١.	Mean Declination from Indian from Indian from Indian from Indian for 1805.	20° 12′ 14″, 426° 16° 6′ 23′ 830° 18′ 11° 39′ 48′ 544′ 114′ 57′ 27′ 091′ 14° 6′ 1′ 30° 6′ 11° 6′ 1′ 30° 6′ 11° 6′ 1′ 30° 6′ 11° 6′ 1′ 30° 6′ 11° 6′ 1′ 30° 6′ 11° 6′ 1′ 30° 6′ 11° 6′ 11° 6′ 1′ 30° 10° 6′ 10° 10° 6′ 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°
IV.	Intercal during when observed.	Feb. 6. Mar. 20. 30 Jan. 2. Feb. 24. 15 Mar. 27. Apr. 24. 14 Oct. 25. Nov. 14. 14 Oct. 25. Nov. 14. 14 Nov. 28. Jan. 12. 12 Apr. 28. Jan. 12. 13 Mar. 15. Apr. 22. 12 Mar. 9. Apr. 9. 7 Mar. 9. Apr. 9. 7 Nov. 8. Jan. 15. 7
H	.sqO fo .muN	858538 855885
三	Magnitudes.	
ï	Names and Characters of Stars.	Arctarus, Aldebaran, B. Leonis, Reculis, Pegasi, Pegasi, Regulus, Ophiachi, Attair, Orionis, Serpentis,

TABLE III.

Shewing the Latitudes for the Madras Observatory such as deduced from 52 Stars near the Zenith by 500 Observations.

XI.	•		
Х.	Corrected Decli- nations for Jan. 1805.	20' 56' 38' 38' 38' 38' 38' 38' 38' 38' 38' 38	
IX.	Laitudes.	**	. 13 4 15 .482
VIII.	Corrected Ze- nith Distances.	7-46 24 '909 7-45 10 '691 7-7 58 .690 6-50 48 .297 6-46 47 .800 6-46 47 .800 6-46 47 .81 .814 4-30 14 .884 4-11 29 .087 3-25 28 .995 3-14 14 .188 3-25 28 .995 3-25 28 .995 3-25 28 .995 3-25 28 .995 3-25 .83 .487 1-38 .25 .85 1-47 .991 0-50 44 .956 0-30 49 .474 0-7 38 .275	Mean of * 's N. of Zen. 13
VII.	મેર દી જાત દાંગમ.	6.536 6.536 6.546	Mean of
VI.	Corrected Ze- nuh dislances Mmus Refrac	55-1-58-2	13 4 13 293
V.	Mem Declin. January 1805.	20° 50° 43° 43° 43° 43° 43° 43° 43° 43° 43° 43	Man Latitude from the whole.
IV.	Period during which ob exced.	Feb. 19, March 30, Feb. 6, March 20, Tan. 12, Tan. 12, Jan. 21, Feb. 11, Nov. 28, Nov. 13, Vrol. 28, Nov. 14, Vrol. 28, May 5, March 5, and 20, Dec. 10, Jan. 2, Feb. 12, Jan. 2, Feb. 14, Feb. 14, Feb. 7, April 24, Oct. 25, Nov. 13, Oct. 25, Nov. 13, Jan. 14, Feb. 7, April 26, Jan. 14, Feb. 7, April 28, May 2, Feb. 19, and 26, Leb. 19, and 26, Leb. 19, and 26, Leb. 19, and 26, Leb. 10, Leb. 19, Le	Mrn Latitude
- -	No. of Obs.	358258288054008883588044	
=	Magnitudes.	00 00 − 00 00 00 00 00 00 00 00 00 00 0	
I	Names and characters of Stars.	C Geminorum, T Leonis Arcturus, E Bootis, Arictis Arictis C ameri, C american,	

Jan. 19. 12°54 April 22. 12°54 Jan. 10. 13°56 Jan. 10. 13°56 May 5. 12°9 March 4. 12°0 April 7. 11°55 and 30. 11°36 May 1. 11°26 April 6. 11°12 April 6. 11°12 April 15. 10°29 Jan. 8. 10°46 Jan. 8. 10°46 March 20. 10°36 March 20. 10°36	Corr. Z. d. - Refraction. Or 9' 14' 386 0 21 22 362 0 27 55 .057 0 42 21 .166 0 54 46 .352 1 3 31 .500 1 9 8 .678 1 27 57 .806 1 37 23 .593 1 52 9 .203 2 17 43 .940 2 24 51 .228 2 34 18 .886 2 45 42 .388 3 17 27 .977	Corr. Z. d. - Refraction. Refrac. Cor. 0° 9' 14".336 0 .131 0° 9 0 21 22.362 0 .293 0 21 0 27 55.057 0 .955 0 27 0 42 21 .166 0 .579 0 42 0 54 46 .352 0 .791 0 54 1 3 31 .500 0 .887 1 3 1 9 8 .678 0 .958 1 9 1 27 57 .806 1 .203 1 27 1 37 23 .593 1 .361 1 52 1 37 23 .593 1 .361 1 52 2 24 51 .228 1 .984 2 24 2 24 54 2 .386 2 .147 2 34 2 24 54 2 .386 2 .355 2 45 2 26 5 27 .977 2 .800 3 17	Corr. Z. d. - Refraction. Refrac. Cor. Z. dist. 0 9 14".596 0.131 0 9 14".504 1 021 22 .362 0.293 0.21 22 .655 0.27 55 .452 0.42 21 .166 0.579 0.42 21 .745 0.54 46 .352 0.791 0.54 47 .143 0.54 46 .352 0.791 0.54 47 .143 1 3 31 .500 0.887 1 3 32 .387 1 9 8 .678 0.958 1 9 9 .636 1 27 57 .806 1 .203 1 27 59 .009 1 37 23 .593 1 .303 1 27 59 .009 1 37 23 .593 1 .361 1 152 10 .764 2 17 43 .940 1 .961 2 17 45 .901 2 24 51 .228 1 .984 2 24 51 .228 1 .147 2 34 51 .035 2 45 40 .053 3 17 27 .977 2 .800 3 17 30 .777 3 .800 3 17 30 .777	Corr. Z. d. - Refraction. Refrac. Cor. Z. dist. Latitud. 0 9 14".596 0.131 0 9 14".504 13"4" 1	Corr. Z. d. - Refraction. Refrac. Cor. Z. dist. Latitud. 0 9 14".586 0.131 0 9 14".504 15"4" 15" 0 21 22.362 0.293 0.21 22.655 13 0 27 55.057 0.395 0.27 55.452 13 0 42 21.166 0.579 0.42 21.745 9 0 54 46.352 0.791 0.54 47.143 15 1 3 31.500 0.867 1 3 32.387 12 1 9 8.678 0.958 1 9 9.636 14 1 9 7.757.806 1.203 1.27 59.009 11 1 9 8.77 57.806 1.203 1.27 59.009 11 1 52 9.203 1.561 1.52 10.764 14 2 17 43.940 1.961 2 17 45.901 10 2 24 51.228 1.984 2.94 53.212 8 58 2 45 42.388 2.395 24.50.053 4 15 2 6 10.875 2.510 3 13.385 10
	77. 2. d. Refraction. 9 14".326 21 22 .362 27 55 .057 42 21 .166 54 46 .352 3 31 .500 9 8 .678 27 57 .806 9 9 .803 17 43 .940 24 51 .228 34 18 .886 45 42 .388	Refraction. Refrac. Cor. Petraction. Refrac. Cor. 121 92 362 0 .131 0 9 21 22 3.500 0 .579 0 42 21 .560 0 .579 0 42 21 .560 0 .579 0 42 21 .500 0 .587 1 9 8 .678 0 .958 1 9 9 8 .678 0 .958 1 9 9 8 .578 0 .958 1 9 9 8 .578 0 .958 1 9 9 8 .583 1 .561 1 .561 1 .562 9 .503 1 .561 1 .562 9 .503 1 .561 2 17 4.3 .940 1 .961 2 17 22 .510 2 .510 3 0 0 10 .875 2 .550 3 .577 2 .575 2 .500 3 17 27 .977 2 .500 3 17	Terr. Z. d. Refraction. Refrac. Cor. Z. dist. 9 14".586 0.131 0" 9 14".504 1 91 29.362 0.293 0.21 29.655 97 55.057 0.395 0.27 55.452 42 21.166 0.579 0.42 21.745 54 46.352 0.791 0.54 47.143 9 8.678 0.958 1 9 9.636 97 57.806 1.203 1.27 59.009 57 23.593 1.303 1.27 59.009 57 23.593 1.303 1.27 59.009 57 23.593 1.303 1.27 59.009 57 24.51.298 1.393 1.561 1.52 10.764 117 45.940 1.961 2.17 45.901 94 18.886 2.147 2.34 21.035 45 42.388 2.355 2.45 40.053 0 1.37 2.510 3.013.385 17 27 .977 2.800 3.17 30.777	Refraction. Refrac. Cor. Z. dist. Latitud. Refraction. Refrac. Cor. Z. dist. Latitud. 9 14".396 0.131 0 9 14".504 13" 4 13" 21 22 362 0.293 0.21 22 655 13 27 55 .657 0.395 0.27 55 .452 13 27 55 .657 0.395 0.27 55 .452 13 28 31 .500 0.887 1 3 32 .387 12 29 8 .678 0.958 1 9 9 .636 14 29 8 .678 0.958 1 9 9 .636 14 27 57 .806 1 .203 1 27 59 .009 11 27 57 28 59 3 1 .361 1 52 10 .764 14 27 57 28 9 .203 1 .561 2 17 45 .901 10 28 51 18 .886 2 .147 2 34 21 .033 4 15 28 54 54 2 .388 2 .335 2 45 40 .053 28 6 7 8 7 8 7 8 7 8 7 8 8 8 8 8 8 8 8 8	Tr. Z. d. Refraction. Refrac. Cor. Z. dist. Latitudes. Cor. De Refraction. Refract. Cor. Z. dist. Latitudes. La

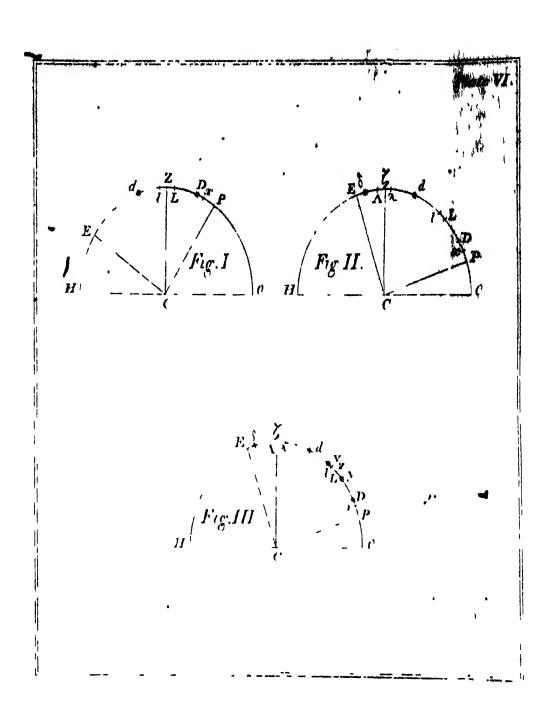
TABLE IV.

Shewing the Latitudes given by Stars as observed North or South of the Zenith.

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1	the Zenith. Zenith. of Z.	à	6 19.165	13 19 44. 69	1		4 13.654					12 59 55 . 49	19. 50 11 44 47 58
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7.5	7	16.48 42".	14 6 20 312	2	<u>.</u>	1		•	• !	13 4	0	59	#
				13 19 49 018	Arcturus, Aldebaran, & Leonis, a Herculis, a Pegast, 13 Pegasi, Regulus, a Ophiuchi, Attair, a Orionis, Serpentis, Procyon TABLE III.	=:	By 11 Observations of S. N. of Zenith, 9 Observations of S. bf Zenith, Observations by Mr. Gotnessy Mr. Trees.	Arcturus, SArietis, Aldebaran, Markab, & Delphini, 13 Regulus, « Ophiuchi, Attair, «Orionis, «Serpentis, E.S. Br 25 Nars, very near the Zenith N			Arcturus, a Herculis, Markab, 7 Pegnei,, 13'0 Ophinchi, 7 Aquilæ, Atfair, a Serpentis, § Aquilæ, Herculis, a Sacitta, e Servi e Rossis and	Delphini (second sett by Major LANBTON)	11 44 50 . 55
1			Viginis, Regulus, o Leonis, Major Lington,		Pres.			Arcturus, & Arietis, Aldebaran, Markab, & Delphini, Regulus, a Ophinchi, Attair, a Orionis, a Serpentis, E. S. Stars, very near the Zenith N.	25 Stars South & very near the Zenith, Circular Inst. 30 Observations of \(\text{O} \) N. of Zenith,	Stars N. of Zenith, Stars S. of Jenith. Zen. Sector, Stars N. of Zenith, Stars S. of Zenith, with Sextant.	a,		
Names and number of Stars observed by.	,	40 Stars South of Zenith. Mr. Topping,	1	Oriovis, Regulus. Major LANBTON,	Arcturus, Aldebaran, § Leonis, a Herculis, a Peresis, Reguls, a Ophiuchi, Attair, a Orionis, Serpentis, Procyon,	tor.		A E	Bla	e cla	Aqu		
rred		KG,	1		cali O	ž		b, a	5	ė	8,5	0X)	
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ber o		40 Stars South of Zenith. M. Bootis. & Leonis a L	3.5	ajor	TABLE II. rau, & Leonis, a Ophiuchi, n, TABLE III.	nith, with the pith, TABLE V.	Z'oʻ	Arcturus, & Arietis, Aldebaran, Markah, Regulus, a Ophiuchi, Attair, a Orionis, a Sears, very near the Zenth N	E X	Stars N. of Zenith, Stars S. bf Zenith,	Tail S	A .	
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pur		न व	Virginis, Regulus,		Arcturus, Aldebara, Pegasi, Regulus, a Serpentis, Procyon,	23 Stars N. of Zenith 29 Stars S. of Zenith TA	ns o ms o	rieti hiuc nea	S of	Stars N. of Zenith, Stars S. of Zenith,	rcul	Delphini (second sett Virginis, 3 Serpentis,	Aldebaran, Regulus, Orionis,
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	By 15 Stars North of Want	4	-	2	8 × ×	by 23 Stars N. of Zenith, with the Zenith Sector, 29 Stars S. of Zenith, TABLE V.	iy I. S Sbscr	4 Z 3		333	40H		Aldebara
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7, 3	7	<u> </u>	a°			Observatory near	บื้อ			1	Bangalore in the Mysore.	Prixandamoram	in the Carnatic

TABLE V.

				4		7			,					
Days on which observed.	h on	% ⊙	2.5	dist	Lenith dist. of	Corresponding Latitudes.	odi itac	nding Ies.		No No I So dist	Mean of Lat. by Northern and Southern Z. distances.	Me	Mean Lat.	
April		80	ı		.849	13.4	4	616.						ì
	9	90 0	5 8	٠ د د	88	44	F) (*	300						
	10	9 09			184	4	• 03							
	8	-		0	.725	93	3							
	7	-			776	*	~							
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together be ascribed to chance; and it was this consideration which led he to examine whether I could not discover some law by which it was regreed.

- For this purpose Igathered all the observations which I could collect, and from as many different places in the *Peninsula* as I could, provided they were obtained in sufficient numbers at each place. These eing arranged in the order of the declinations, and the mean results of nothern and southern zenith distances being taken separately, I noticed invariably (though in unequal degrees) a small excess in the northern, and defect in the southern sets.
- 10. An abstract of these deviations is given in Table IV. and the reader will do well to refer to it in order to judge of the consistency of the preceding remark, and of the solidity of what I have further to say on the subject.
- vations taken north of the zenith to give too great a latitude, and the contrary of the fouthern ones, I shall now endeavour to account for this circle cumstance as follows.
- LET Z (Plate VI. Fig. 1) be the true zenith of any place, E D, and E d, the declinations of any two stars, one north, the other south, and nearly at equal distances from the said zenith. By the present experiments, if we use the declination of D, the latitude will fall somewhere in L: but if we use the declination of d, then it will fall on the opposite side, somewhere in l. Therefore the sum of the zenith

differences D L + I d, will fall fhort of the differences of declinations E D, and E d by the small are L L

- 13. Let now the genith be altered into \(\(\text{Fig. 2} \) fo that \(d \) be now. north of it, and let à be the place of a third star, fouth of the zenith ζ. Then if we use the declination of d (which before gave us too low a laurude) it will now give it in a; and if we use that of a it will fall in A fouth of the true zenith: so that instead of having $ED - Es = \text{fum}_{\delta}$ of the four zenith distances, we have it (Fig. 2) = DL + Ll + ld + ld $d \lambda + \lambda \Delta + \Delta \delta$. That is, the four observed distances + the sum arcr $L l + \lambda \Lambda$. Therefore, if we suppose the declination E D to wave been well determined, that of d is too low by the arc L l, and that of L by $Ll + \lambda \Lambda$.
- 14. For example; let the true place of Aldebaran be at x, and its apparent place (affected by the error in the declination) be at D, Regulus at d, and a Orionis at 3; then by the observations at Paudree and Trivan. daporam we have

Now the mean declination of Aldebaran being

Equal - - - - - 16° 6' 23" .73

And a Orionis = 7 21 36 .61

We have
$$ED - EA$$
 8 44 47 .12

8 44 31 .45

Diff. $Ll + \lambda \Lambda = - - - 15$.56

and in order to have separately the values of these quantities, we have at

At Trivandaporam,

E Λ by a Orionis - - - - 41 .678

Ference λ Λ - - - - 7 .879

Hence $L_y + \lambda \Lambda = 7''.678 + 7.879 = 15.557$ as before.

15. It is therefore evident, that taking the declination of Aldebaran to be correct, and the observations good, then the declination of a Orionist should be increased by 15".557. Again, if we revert to what I have said higher up (Para. 7) it may be inferred, that these errors proceed from assigning originally too great a difference of polar distance between the extreme stars from which the mean latitude is deduced (as for example between Arcturus, and Procyon): hence the mean latitude, which is derived from both, will fall somewhat too low; both on account of the excess of this arc, and also of the error of polar distance of PD - P is:

- 16. It follows from this, that the fuccessive small arcs of declination Dy, yv, vd, d's (Fig. 3) will severally be-too great, and this seems to be the case with the declinations of the twelve stars registered in Table II.
- 17. It is true that in the foregoing example, where I have compared the refults given by Aldebaran, Regulus and a Orionis, I have selected an

^{*} See also infra, Pa. 17.

extreme case; but it is likewise evident, from what appears in Table IV, that were the mean of any number of northern and southern stars, to be taken separately at any two places of different latitudes, and in-the order here described, the deviation would tend the same way as in the above exposition; and this, it may be supposed, by a certain quantity, thrown in from a distant zenith, on account of refraction, which cannot be corrected here for the quantity Px, nor done away by that due to the small arcs Dy near the zeniths. Also that the latitude of ζ will fall too low by a cartain quantity $(PD - Px)Dx + \frac{Ll + \lambda A}{n}$, where Dx is the whole error affecting the declination of D; and the divisor n, will be in some proportion of the error affecting the whole arc D salways, in excess) from the extremities of which the mean latitudes of Z and ζ were deduced.

- 18. With the mean latitude given in Table II, we can therefore be no otherwise satisfied than from the following consideration, which as far as it affects our latitude seems to reduce the error $D x + \frac{L l + \lambda \Lambda}{n}$, to a mere nothing.
- ferved from every part of Europe, owing to its being very near the ecliptic, and fituated only 9 minutes and 14 feconds from the zenith of the Madras Observatory, gives a latitude differing only from the mean refults in Table II. by 0'.22. This, no doubt, will be admitted to be a strong indication, that its declination, such as laid down in the tables, is very accurate. Regulus may therefore, without inconveniency, be taken as a visible point in the heavens, from which to lay down the position of

the other likes by this i means the genith diffunces applied to it will give refolts confident both with the object with at Greenwill, and at Madras, and thus form a link by which the two geniths may hereafter be connected.

so, For this reason, in computing the Xth column in Table III. In pave adopted the following process:

I.

Declination of Regulus, -- 12° 54′ 58″ .930

Zenith distance of do. -- 0 9 14 .504

Z. D. of Arcturus N. -- 7 7 58 .690

Corrected declin. of Arcturus, 20 12 12 .124 N.

II.

Zenith distance of Regulus, 7 0 9 14 584

Zenith distance of Frocyon, 4 - 7 21 11 802

Difference, - 7 11 57 298

Declination of Regulus, - - 12 54 58 .930

Corrected declin. of Procyon, 5 43 1 .632

Madras Observatory, wherewith to take accurately great zenith that tances; for corresponding observations of stars near the zenith of Greenwich and of Paris, would have afforded powerful means for correcting, after the same manner, the declinations of all stars in that extensive space of the heavens which divides the two Observatories.

On the Sun's Declination.

22. It is a fact deserving of notice, that the medium of 20 observa-

tions of the sun, taken with the senith sector, (Table V.) gives the listitude of the Observatory only 13° 4'3° 328 which is less by so".326 than that brought out by the stars in Table II.

- 23. The great difficulty of observing the sun, when in the meridian in tropical climates, owing to the great tremor of the atmosphere at from time, induced me not to consult it in laying down the latitude of this Observatory.
- 24. However, on comparing the mean latitude in Table V. with the results of similar observations, formerly taken with the same instrument by Mr. Goldingham. (56 in number) I found that his latitude by the sun, namely, 13° 4′5″.66, differed only by 2″.332′ from wipe. There could therefore remain no doubt that the sun gave a lower latitude than the stars; and I was surther confirmed in this opinion, on Major Lambton communicating to me his remark, that when observing the sun, in various parts of the *Peninsula*, his results were likewise in defect.
- 25. In order-to-make a further trial of this, let us compute the exact time when the fun was precifely in the parallel of the Madras Ob-fervatory, and then (taking the difference of longitude between Green-with and this place to be well known) determine the fun's declination for that moment, from what it is given in the nautical almanae for two preceding, and two fucceeding noons.
- 26. For this, taking the four zenith distances observed nearest and on each side of the zenith, and interpolating in the usual way, we have

[•] The formula of which is $y = a + P \times + 2 \times \frac{x-1}{3} + R \times \frac{x-1}{3} \stackrel{x}{=} \frac{x-2}{3}$ &cc. where sis to be found by refolving the equation,

Therefore a = 11781; P = -1185; Q = 10; $\frac{2P}{Q} = Z = -287$. Hence $X = -\frac{R-1}{2} + \sqrt{\frac{R-1}{2}} - \frac{2a}{2} = 1.50617$ or 1 day 1sh 8, 52'.84. Therefore the fan was exactly in the parallel of the Observatory on the 25th of April at 12h 8' 52''.84 P. M. Madras time, and taking the difference of longitude 30 be 80° 18' 30" E. which gives in time 5h 21^m 14', then the fun was in the said parallel on the 25th of April at 6h 47^m 38". Greenwich time:

27. Now by interpolating again for the fun's declination at that inflant, we have by the ephemerides

Therefore a = 45584; P = 1186; Q = 18, and $x = \frac{61.587}{48}$; and y = a + Px + Qx. $\frac{x}{2} = 13^{\circ}$ 4' 3".159, which differs only from the mean latitude by the fun (Table V.) by 0".169.

- 28. It is, I own, no easy matter to give a reason for so great a deviation. The difference between this position of the sun when in the parallel of the Observatory, and the latitude of that place as given by the stars, being 10".326, no error in the difference of longitude assumed between the Greenwich and Madras Observatories can account for it. For if we take y=13° 4'13".654 or 47053".654 (Table II.) then resolving the equation we have, $x = -\frac{2-1}{2} \pm \sqrt{\frac{2+1}{2}} + \frac{2+1}{2} + \frac{2+1}{2}$
- 29. AGAIN; as to the time of apparent noon at Madras, the sun's transit was always observed with the fixed transit instrument, whilst I was observing it with the zenith sector; and these contemporary observations agreed always to a second of time. There can therefore be but little irregularity to apprehend from this element, and we are compelled, though under equal objections and difficulties, to ascribe the error to the declination either as assigned to the sun in the ephemerides, or to the stars in the catalogue for 1802; and I believe the former are the most likely to create suspicion.

ments and affiduous practice, the cause can only be ascribed to that important correction on which we are still so very uncertain: and on this I shall venture an opinion, not altogether unsupported by experiments; which is, that the declination of the sun being deduced from observations taken at nom, and that of the stars at night time, the effects of refraction at these different periods may possibly vary materially, and what is allowed for zenith distances of the stars, be too much for zenith distances of the sun; a surmise which explains at once why the sun, in the present instance, gives a lower latitude than the stars. This strongly suggests the expediency of surther experiments for ascertaining a point, which, if established, would be highly conducive to important discoveries, in an interesting but imperseely known branch of natisfal philosophy.

JOHN WARREN.

George, 1st of March, 1808.

^{*} See Afiatic Refearches Volume IX. Article 18, Page 13, on experiments on terrefirm refraction, where the refraction at night was fomething more than double what it was in the day time, owing (it is supposed) to the increased moisture of the atmosphere.

IX

TRANSLATIONS of two LETTERS of NADIR SHAH, with INTRODUC-

BY BRIGADIER GENERAL JOHN MALCOLM.

TO HENRY COLEBROOKE, Esq.

President of the Asiatic Society.

My DEAR SIR.

In the course of researches into the history of Persia, my attention was particularly drawn to a collection of letters, and original state papers, of Nadir Shah, published after his decease by his favorite secretary Mirza Mehedi. This collection is held in the highest esteem in Persia, not only from the light it throws upon the history of that nation but from the stile in which it is written, and which is considered to be the best model for those who desire to attain excellence in this branch of writing.

FI HAVE the pleasure to transmit, for the consideration of the Asiatic Society, translations of two of these letters which appear to be strongly illustrative of the character of NADIR SHAH, and the history of the period at which they were written, and which may perhaps be deemed on that account not unworthy of a place in the Society's Researches.

THE first is addressed to Muhammed Ali Khan, Beglerbeg* of

[·] Governor of Persia proper.

- a few months previous to the dethronement of Shah Tamasp, which took place in the month of August of that year. Nadia Shah published, at the period at which he wrote this letter, a proclamation or manifesto addressed to the inhabitants of Persia, in which, after stating his own successes against the Afghans and the other enemies of his country, and the evils which appeared likely to arise from the shameful peace which had been concluded with the Turks, he announces his intention of marching after the seast of Nau Róz (which occurred that year on the 22d of Ramzan or 10th of March) and of not only obliging the Turks to consent to more just terms, but of depriving of dignity and power, and considering as insidels, all those who should oppose his intentions. This manifesto, as well as his letter to the Beglerbeg of Fars, sufficiently prove, that his designs were at that moment more directed against his own sovereign than that of Constantinople.
 - THERE is no epoch in the life of Nadir Shah at which he acted with more confummate art and policy, than upon this occasion. The crown of Persia was completely within his grasp. But he appearance have considered it as indispensable to have his right universally merically merically have considered it as indispensable to have his right universally merically merically have considered it as indispensable to have his right universally merically merically merically have considered it as indispensable to have his right universally merically merically merically have been decided by his countrymen before he seized it. He had within a period of thirteen years risen from obscurity to unrivalled pre-eminence in the service of his weak monarch; and, by his wondersul valor and conduct, had not only rescued his country from the Afghans, the Turks and the Russians, who, taking advantage of the decline of the Sofaviyah dynasty and consequent diffentions of the nobles of the empire, had made themselves masters of its richest cities and finest prov-

vinces; but he had revived the military spirit of the Persians, and, roufed a nation funk in floth and luxury, to great and fuccessful exer-But neither this success, the imbecility of SHAH TAMASP. nor a reliance upon his own fame and strength, could induce him, to take the last step of usurpation, until he had by his arts excited a complete contempt in the minds of his countrymen for their reigning ' fovereign, and a pride in his glory, that was likely to make his elevation feem more the accomplishment of their wishes than of his ambition. The great ability with which he labored to effect this object, is admirably shown in his letter to MUHAMMED ALI' KHAN, He commences by stating his victories over the Afghans, whom he had not only completely expelled from the empire, but pursued into their own territories. Henext exposes the impolitic and humiliating conditions of the treaty which the king had concluded with the Turbish government; and, on the ground of its bringing diffrace on Persia, afferts his right and intention, as the successful; champion of the independence of his country, to abrogate the ignominious engagement; and, while he flatters the national spirit of the Persians by anticipating fuccels against their antient rivals the Turks, he endeavors to enflame all their bigotry by giving the color of religion to the cause which he has undertaken; and calls upon them, with the well seigned zeal of an enthusiast, to fight for the preservation and existence of the holy sect of Shiah, a schism which, as appears from his whole life, he always confidered to be a herefy, and which it was the first and last object of his reign to eradicate and destroy: and, to make the effect of this letter complete, he concludes it with the usual declaration of all Muhammedan leaders who have made religion the pretext of

war, that he should consider and punish as insidels all those that refused their concurrence and aid in the sacred cause to which he professed himself devoted.

The fecond letter is from Delhi, and must have been written immediately after the arrival of Nadir Shah in that city, in the month of February 1738. It commences with a clear statement of the causes of his invasion of Hindustan; which is followed by a concise relation of his military operations, and a particular account of the celebrated battle of Karnál, in which he deseated the emperor of India. The account of occurrences before the action, the action itself, the subsequent visit which Nadir received from Muhammed Shah, and his resolution to replace that monarch upon the throne of his ancestors, are stated with equal perspicuity and force, and the whole of this letter is written in a less instated stile than any oriental composition of a similar nature which has fallen under my observation. It records events of almost unparalleled magnitude, and the expression is (as far as I can judge) never more warm than what the subject justifics, and indeed requires.

THESE letters are perhaps calculated to give the reader a more favorable impression of the character of Nadia Shah, than any thing before published relating to that great and successful conqueror; who is chiefly known in Europe by the report of his tyranny and cruelties, and above all by the massacre of Delhi, which reached European narrators through the exaggerated statements of the surviving inhabitants of that unfortunate city. It is far from my intention to trouble you with what the Persian advocates of Nadia Shah state in vindication of his conduct upon that memorable occasion; nor do I mean to enter in this place into

any inquiry regarding the character and actions of this extraordinary man; but you will, I am affured, forgive me, if I offer some observations on the manner in which the history of NADIR SHAH and of several other Asiatic princes of eminence have been given by European writers,

In describing eastern despots, there has often appeared to me a stronger desire to satisfy the public of the author's attachment to freedom and his abhorrence of tyranny, and despotic power, under every shape, than to give a clear and just view of those characters whose history was the immediate object of his labors. This usage may no doubt, in some points of view, appear laudable. It may have a tendency to impress those who peruse the work with a still greater love of the first of all human bleffings, rational liberty. But others, who look to a volume of Asiatic history with no other defire but that of obtaining historical truth, and a correct knowledge of the social and political state of the nation that is described, will be disposed to regret that there was any prejudice on the mind of an author or translator, that gave him a bias unfavorable to the gratification of their hopes. They will wish, that he had looked upon the political world with more toleration; and, though they may not censure his warm admiration of the government of his own country, they will lament the existence of a seeling which was adverse to an impartial confideration of events illustrative of the general history of the human mind, and which has led him to stamp with general and unqualified reprobation rulers, who, however low their pretentions may be rated, if tried by the standard of countries towards whom that over which they reigned had no one point of affinity, must have stood high in the scale, if measured by that more

applicable principle, which takes as its foundation, the actual state of the community in which such characters were born, the means which they possessed, and the actions which they achieved; and, on this fair and just ground, pronounces with truth and discernment, on the right they had, from their qualities and achievements, to that pre-eminence which they attained.

Is such an author were to write the history of NADIR SHAH, he. would probably see something more than a mere usurper and tyrant in the man, who, born in a low rank of life, at a period when his country was overrun by foreign invaders, raised himself by the force of his own genius and courage to the highest military rank; attacked, defeated, and expelled every enemy from Persia; and afterwards, with the universal consent of his countrymen, seized the sceptre which his valor had faved, and which a weaker hand could not have wielded. Such an historian, after dwelling with pleasure if not enthusiasin, on the early events of his life, would accompany NADIR with satisfaction in his war upon those barbarous Afghan tribes, who for a series of years had committed the most horrid ravages in Persia; and though it would be impossible to commend the motives that led that monarch to attack the Emperor of India, the extraordinary valor and conduct which he displays in that enterprise, the exercise he gave by it to that military spirit which he had with such difficulty rekindled among his countrymen, and the magnanimity with which he restored the crown (which he had conquered) to the weak representative of the illustrious house of Timur, might, without offence to truth, be stated by such a writer in mitigation

of that infatiable defire of glory which prompted the enterprise, and of those excesses by which it was attended.

The actions of Nadir Shah, until the period of his return from India, are a theme of constant praise among his countrymen. Of the remainder of his life they say, that, though it was not unmarked by great deeds, it was too evident that he had become intoxicated with success, and no longer acted under the guidance of reason; and all Persian authorities agree, that, after he had in a paroxysm of rage, or rather madness, put out the eyes of his eldest son Reza Kuli Mirza, he became altogether insane. But neither this act of attrocity, nor the other cruelties which Nadir committed towards the close of his reign, have eradicated from the minds of his countrymen the sentiments of veneration which they entertain for his memory, as the deliverer of his country from its numerous, cruel and insolent enemies.

I MUST trust to your indulgence to excuse the length of this letter. If the accompanying translations are deemed worthy of being inserted in the transactions of the Asiatic Society, I hope to be able to forward hereaster others of a similar kind.

I am, My Dear Sir,
with fincere respect and esteem,
Yours faithfully,

JOHN MALCOLM.

31st October, 1803.

LETTER I.

(Written before Nadia Sman ascended the throne,) addressed to Monaumus Ali Kuan, Begierbeg of Fare, and giving an account of the conquest of Herat.

TO the highest of the exalted in station, the Chief of the great Nobles MUHAMMED ALL KHAN, these happy tidings be conveyed.

AIDED by the bounty of an all powerful Creator, and the happy suspices of the house of Harders and the twelve holy imams (on whom be eternal mercy,) with my crescent formed and all subduring scimitas, which in glory resembles the recent moon, and with my powerful and victorious army, and soldiers of propitious desiry, who are those sent from housen, + I have, under the influence of good fortune, surpassed all others in the express of sortresses and cities.

At this happy and auspicious period, the host of Afghans of the tribe of Abdalli, who sled from the edge of the conquering swords of my dragon-like warriors, retired, as a spider within its web, I into the fort of Herat. Their hearts were distracted with fear, and the pillars of patience and fortitude, that had supported their resolution, were cast

† Sentences marked by italics, are passages from the Koran, of which I have concisely rendered the meaning.

ALI Here the tribe of Shiehs are meant, who are supposed to be under ALI's protection, and in fact part of his family

[‡] From the Koran The passage literally signifies "like unto the spider that maleth himself a house." But the weakest of all houses surely is the spider's.

TRANSPATIONS OF TWO LETTERS

Reduced to distress by the complicated evils of famine and of the fword, they implored mercy; and "as elemency is enjoined to the powerful," I permitted them to evacuate the fort; and have fent (with a view to disperse them) fixty thousand of this tribe with their families, who were reduced to great milery's to the soity of Khar Shehyar in the province of Khanssan. By the favor and bleffing of that omnipotent being, by whom I have been protected, the fort of Herat is in my possession; and the whole of the tribe of Afghans, as also of the Ghelyahs of Candahar, who were in the bonds of elliance with them, have submitted; and have placed upon their necks the collar of obedience.

In the midst of these actions, by which the whole country from Herat to Candahar has been completely subdued, and the disturbers of tranquillity on the borders of Khorasan exemplarily punished; I learn. by a letter from Muhammed Reza Khan, who was fent ambassador to the court of Rum, & that he has concluded a treaty with the king. by which it is agreed that the Turkish empire shall possess the territory on the other bank of the river Aras; and the Persian, all upon this: but no arrangement appears to have been made for the liberation of the prisoners of the sect of Aui who are confined in the Turkish dominions.

Ir is an incontestable truth, that the existence of humble persons, like us, who, from the favor of a divine providence, have obtained rank and pre-eminence over others, is for no other purpose than that we should be

A particular tribe of Afghans. Constantinople.

dispel the grief of the poor and afflicted; ("for to protect the ruled is the duty of the ruler.") That we should combat the enemies of the weak, and eradicate the distemper of sedition from the body of the state: not that (deaf to the voice of the helpless and unmindful of those that are prisoners) we should break such sacred engagements, to conciliate the approbation and yield to the power of a proud enemy.

By the great and powerful God, this day is big with ruin to their enemies and with joy to the fact of Shieks, the discomfiture of the evil minded is the glory and exaltation of the followers of Ali. When the avenger is at hand the wicked tremble and are appalled. Their eyes roll wildly like one in the aganies of death. Let the danger pass over, and it is forgotten. They revile and mack with their tongues.

This is a just description of the Turkish tribe. Why should we listen to more prevarications? Or why confine ourselves to the bank of the Aras;* when it is manifest, that the peace, which has been concluded, is contrary to the will of God and irreconcileable to the wisdom or dignity of imperial greatness.

I HAVE stated to the minister of the exalted prince, that such a posse cannot be permanent, and that I conclude the mission of an ambassador to have been an act of compulsion, as I cannot believe that the prince would, under other circumstances, have consented to such a degradation of his dignity. But at all events, as offerings are continually made in the palaces of the lords of the faithful, and the holy men with

^{*} Araxes.

broken hearts are praying to their divine creator for the release of the Musulman prisoners; it was my determination, after receiving leave from the holy prince of regions. All IBN Mausa Reen (on whom be eternal bleffings) to march on the second day after the seast of Feter to wards the disputed quarter, aided by the divine power, and accompanied by an army raging like the troubled ocean.

VERSE.

I shall overflow my banks, and fly like an impatient lover to his mistress; Like a torrent, with I rush, with my breast ever on the earth.

HARIZ! if thy sootsteps define to gain, by the true path, the holy house, Carry along with thee the virtue of the exalted of Nojes.

I have represented also, that I have sent the high in dignity, Mansum Ali Bec Geralli, ambassador to the court of Rúm, and that he is attended by a respectable escort; and that he is fully acquainted with my wishes and sentiments.

You will no doubt be rejoiced to hear, that, as it was to be hoped from the goodness of God, this peace with the Turks is not likely to endure; and you may rest in expectation of my approach. For by the blessing of the most high, I will advance immediately, with an army elated with success, skilled in sieges, numerous as emmets, valiant as lions; and combining with the vigor of youth the prudence of age. I will attend on the exalted prince, and then proceed towards the Turkish frontier.

One of the twelve Imams, who died at Meshed in Khoraian, where he is buried.

t This teast happens at the conclusion of the month of Ramzan.

VERSE.

Let the cup-bearer tell our enemy, the worshipper of fire, To cover his head with dust; For the water, that had departed, is returned into its channel,

SUCH of the tribe of Shiahs, as are backward on this great occasion, and are reconciled to this shameful peace, should be expelled from the faithful seat; and for ever counted among its enemies. To slaughter them will be meritorious; to permit their existence, impious.

- " I have heard, that, during the reign of MUTASIM,
- " A woman of Ajim was taken by the foe:
- " Her eyes became channels for torrents of blood,
- " She thus complained of her wretched state.
- "Oh MUTASIM! why art thou supine? I call for justice!
- "Thy subject is a prisoner in the hands of thine enemy.
- "Thou art the flame in the lamp of the country.
- of the depends the shame or glory of the nation.
- "Thou art the protector of the poor and wretched:
- 4 All their children are the children of their fovereign !
- "Her masters, astonished at these exclamations,
- "In rage struck her on the face
- "And faid, "now let your much Mutasim,
- " With all the renowned heroes of Persia,
- " Collect an innumerable army,
- " And come, if they choose, to thy rescue."
- "This speech soon reached the great MUTASIM,
- "Who immediately published throughout Persia,
- "That all, who pretended to the name of men,
- " Should instantly affemble in arms.
- "When the monarch had completed his mighty preparations,
- " He foon heaped destruction on the heads of his enemies.
- "To release one prisoner from the hand of the foe,

This story is related by historians, of MUTA'SIM, the son of HA'RUN AL RA'SHID, and eighth Khalif of the house of Abas. D'Herbelot Bibl. Or. 639.

TRANSLATIONS OF TWO LETTERS

- **FIR**
- " If an incomparable army were affembled,
- " At this moment, when numbers of the Shiahs of Persia
- " Are prisoners in the hand of cruel men,
- 44 And, with their lamentable cries uttered morn and eve-
- " Have rendered dark and gloomy the azure fky;
- " It is acknowledged by the tribe of Shiahs,
- " That the king t of Kheranan, the Imam of the age,
- " Is not confidered by the men of Persia
- 45 As less honorable, nor of teffer fame, than MUTASIM!
 - "Then, by the mercy and greatness of the creator,
 - 16 Victory is still declared to these soldiers.
 - "Under the ampices of the most merciful of the world,
- " I have taken ample vengeance on the Afghans.
- 44 Aided by the fortune of the lord of Kherasan,
- " I have been revenged on the whole tribe of the Afghant,
- "There remains not in this quarter, at this period,
- "Aught of that tribe but their name,
- " In this war great actions have been fought.
- "The Kezel-bashes became each a tharp pointed thorn,
- " From the flaughter that has been made, and the blood that has been shed,

1

- "Our high polished scimitars have received a purple stain,
- 4 I have taken from the worthless foe,
- With my fword, the region from Herat to Candahar!
- " By the facred temple of the lord t of Neight
- "We will turn with vehemence to that quartir,
- We will perform a pilgrimage to that threshow
- " And we will afford protection to our prisoners;
- "We will take ample vengeance of the Turks.
- "We will punish ! all our foes.
- "And in this war, whoever continues inactive,
- " Or from baseness remains in pretended ignorance,
- " Both his property and his blood are lawful prize.
- " He is to be considered out of the pale of the true faith."

\$ Literally, furbish the garments.

[†] Ali Mausa Reza, the seventh Imam, buried at Meshed.

^{*} Persians; literally Redheads, a name given to them, from the circumstance of SHAH ISMAIL having directed all true followers of the fect of Shiah to wear red caps.

t Ali, the son in law of the prophet who is buried at Nejef.

Most Noble Lord, if the state of the province of Fars will permit, lose not a moment in repairing to the court of the most exalted prince at Ispahan; and represent to him that, as the peace which has been concluded will benefit no person whosoever, and can in no light be viewed as proper or reputable, it neither meets the approbation of the nobles nor the commonstry of the empire.

But, if you should be prevented from moving to the capital, owing to the dispute with the Arabs not, being adjusted, let me be instantly informed. If you are able to quell these troubles, it is well. But, if you require aid, make me acquainted; and a detachment of my vistorious army shall march to your support.

KEEP me regularly informed of the news of your quarter.

LETTER II.

From PADIR SHAH, to his son Atta Kuli Migra, giving an account of the conquest of Delhi,

To the exalted and glorious son of our wishes the valuent Read Kuli Mi'RZA, who is our vicegerent in Irán, the seat of our empire; our most beloved, the pre-emissent in royal rank, allied to us in dignity:—he these glorious commands known.

AGREEABLY to our former communications, after the defeat of the Afghan prince, Ashrer Ali' Merdan Khan was appointed our ambassador to the court of Hindustan for the purpose of representing to

that court, that as the turbulent Afghans of Candahar and its neighbouring provinces were to be confidered equal enemies to both states, it would be advisable to appoint an army from Hindustan, to occupy the passes and prevent the retreat of the marauders. The emperor Muhammed Shah gave a ready assent, and concluded a treaty to the proposed effect. After the return of our ambassador, we sent Muhammed Ali' Khan to the court of the Indian emperor to repeat our instances on this subject, and Muhammed Shah confirmed his former engagement.

AFTER our glorious and victorious standards returned to Candahar, we understood from our conquering generals employed with a part of our force in the reduction of the Afghans of Kallat and Ghizni, that Muhammed Shah had in no respect fulfilled his engagements; and that no appearance of an Indian army had been seen in that quarter. This intelligence induced us to send with the utmost expedition, Muhammed Khan Turkoman to the court of Delhi to remind the Emperor of his promises; but that sovereign and his ministers, in detelication of their former engagements, treated the subject with neglect, omitted answering our letter, and even put restraint on the person of ambassador.

In this situation we were impelled to march against the Afghans of Ghizni and Cabul, and after punishing the refractory mountaineers in that quarter, as we considered the neglect and contempt with which Muhammed Shah had behaved, and his conduct to our ambassador irreconcileable with friendship, we marched towards Shahychanabad.

Direction of Lation, the former leat of empire, our beloved fon has affectly been informed. We marched from that city the last day of Share will, and on Friday the 10th of Zelkad reached Ambala, forty furblacks from Shahiekanabad. We here learnt, that Muhammed Sham had collected from Hindustan and the Dechin a numerous force, and accompanied by all his nobles, by an army of three hundred thousand men, three hundred pieces of camon, three or four hundred eleptibits, and other equipments in proportion, had marched from Delki and article at Panipet, a village twenty fariable from Ambala. We have attly directed the superfluous and heavy baggage of our conquering army to be left at Ambala, and advanced to meet the enemy. Muse Ammed Shah also left Panipet and marched to Carnal, which it twenty-five fariakhe from Delki.

In the course of our march we detached a force of five or six shows and men in advance, who had orders to observe the appearance, numbers and order of Muhamman Bhan's army. This body, when about sees sardictions Carnal, sell in with the advance of the Hindustans army, which amounted to twelve thousand men; these they attacked and touchy routed; presenting us with their general and many others, whom they made prisoners.

This fignal defeat put a stop to MUHAMMED SHAH's further advance. He halted at Carnal and surrounded his army with a trench: he also constructed ramparts and batteries on which he placed his cannon.

We had fent a detachment to march to the east of Mun'annead Shah's camp and post themselves on the road that led to Deship this party received accounts on the night of Tuesday the 15th, that Shahper Khan, known by his title of Burhan ul Mulk, and one of the chief nobles of the empire had reached Malabat accompanied by an army of 30,000 men, a train of artillery, and a number of elephants, and intended forcing a junction with Muh'ammed Shah.

WITH a view of intercepting this force, we marched our army, two hours before day break, to the east of Carnál, and occupied the road between that village and Panipet. This movement, we hoped, would force Muhamad Shah from his entrenchments. About an hour and a half after day light we had passed Carnál, and gained the east side of the Hindustani camp, when the advance guard made prisoners some stragglers of Saadet Khan's party, from whose information we learn, that that general had succeeded in his design of forming a junction with the emperor; in whose tamp he had arrived at ten o'clock the preceding night.

On this intelligence we were pleased to order our royal tents to be pitched on the ground, which we then occupied, opposite to the camp of Muhammed Shah, from whom we were distant about one farsakh.

As the junction of SAADET KHAN had been the cause of MUHAM-MED SHAH's delays, he conceived on that event his appointments to be complete; and, leaving two thirds of his cannon for the protection of his camp, he advanced with a great part of his army, a third of his artillery, and a number of his elephants, at twelve o'clock the same day.

half a farfatch in the direction of our royal army; and drew up his troops in order of battle. Placing himself in the centre of the advanced lines, he stationed the remainder of his troops in the rear as a support. Their numbers were incredible: They occupied, as close as they could be drawn up in depth, from the front line to the entrenched camp, a distance of half a farsakh; and their front was of equal extent. The ground was every where dark with their numbers, and to judge from appearance, we should suppose they were ten or twelve times more numerous than the army of the Abdal Gardoghly.

Wz, whose only wishes were for such a day, after appointing guards for our camp and invoking the support of a bountiful creator, mounted and advanced to give battle.

For two complete hours the battle raged with violence, and a heavy fire from cannon and mulquetry was kept up. After that, by the aid of the Almighty, our lion-hunting heroes broke the enemy's line, and chased them from the field of action, dispersing them in every direction.

SAADET KHAN mounted on his state elephant, his nephew NISHA MUH'AMMED KHAN and other relations, fell prisoners into our hands. SAMSA'M ALÍ KHAN DAURAN AMÍR UL OMRA BAHADUR, the sirst minister of the empire, was wounded. One of his sons, with his brother Muzerer Khan, was slain; and another of his sons, Mir AA'SH'UR, was taken prisoner. He himself died the following day of his wounds.

Was'ıli Khan, the commander of the emperor's body guard, Shad'ab Khan, Amir Kuli Khan, Ali Muhammed Khan, Miz

House Khan, Kha'ja Ashres Khan, Am-yar Khan, A'anga Bro Khan, Shahe'an Khan Afghan, Amend Ali Khan, Rashe Ras Khan, commender of the artillery, so also Shia Khan'u, wish about three hundred other nobles and leaders, of whom fifteen were commenders of feven thousand, of four and of three thousand, were flain.

MUH'AMMED SHAH, with NIZAM UL MULK, ruler of the seven provinces of the Dec'hin, and a chief noble of the empire, KAMER UL DI'N KHAN, chief vizier, and some other nobles of less note, protected by Whovering party which had been left, made good their retreut within the entrenchments, and escaped the shock of our victorious swords.

THIS action lasted two hours; and for two hours and a half more were our conquering soldiers engaged in pursuit. When one hour of the day remained, the field was entirely cleared of the enemy; and as the entrenchments of their camp were strong, and the fortifications formidable, we would not permit our army to assault it.

An immense treasure, a number of grand elephants, the artillery of the emperor, and great speils of every description, were the reward of one victory. Upwards of twenty thousand of the enemy were slain on the field of battle, and a much greater number were made prisoners.

Immediately after this action, we furrounded the emperor's camp, and took measures to prevent all communication with the adjacent country, preparing at the same time our cannon and mortars to level with the ground the fortifications which had been erected.

As the utmost consusion reigned in the imperial camp; and all discipline was abandoned, the emperor, compelled by irresistible necessity, after the lapse of one day, sent Nizam ut-Mulk, on Thursday the 17th, to our royal camp; and the day following Muhammed Shah himself, attended by his nobles, came to our heaven-like presence, in an afflicted state.

WHEN the emperor was approaching, as we are ourselves of a Tunkoman family, and Muniammed Shah is a Turkoman; and the lineal descendant of the noble house of Gaurga'n's; we sont our dear son Nasir Ali Khan beyond the bounds of our camp to meet him. The emperor entered our tents, and we delivered over to him the signet of our empire. He remained that day a guest in our royal rest.

Considering our affinity as Turkomans, and also reflecting on the favors and honors that befitted the dignity and majesty of a king of kings; we bestowed such upon the emperor, and ordered his royal pavilions, his family, and his nobles, to be preserved; and we have established him in a manner equal to his great dignity.

AT this time, the Emperor with his family and all the lords of Hindustan who marched from camp, are arrived at Dehli: and on Thursday the 29th of Zilküd, we moved our glorious standard toward that capital.

IT is our royal intention, from the confideration of the high birth of Muhammed Shah, of his descent from the house of Gaurga'n'r, and of his affinity to us as a Turkoman, to fix him on the throne of empire, and to place the crown of royalty upon his head.

TRANSCATIONS OF TWO LETTERS

PRAISE be to God, glory to the most high, who has granted earthe power to perform such an action! For this great grace which we have received from the Almighty, we must ever remain grateful.

Gon has made the seven great seas like unto the vapour of the desart, beneath our glorious and conquering foothers and those of our faithful and victorious heroes. He has made, in our victorious mind, the thrones of kings, and the deep ocean of earthly glory more despicable than the light bubble that floats on the surface of the wave; and no doubt his extraordinary mercy, which he has now shown, will be evident to all mankind.

As we have taken possession of a great number of cannon, we send 20,000 Megsals of Iran and Turan, with a detachment from our own conquering army, and a body of artillery with some large elephants, whom we have directed to march to Cabul. No doubt our sons will inform us of the affairs of that quarter.

AFTER the armival of your letter, we will either order the detachment which we have sent, to proceed to Balkh or to go to Herat.

We have appointed the high-in dignity Ansa'ua Khan to march to Balkk, after the Nau roz, (22d March) which he no doubt will do.

Consider our glorious victory as derived from the bounty of the creator, and as an event of fortune beyond all calculation. Make copies of this our royal mandate and disperse them over our empire, that the well wishers of our throne may be happy and rejoice, and our secret enemies be dejected and confounded. Be you constantly employed in



adorning and arranging your government; placing your hopes in the favor of the most high, so that by the blessing of God, all those, whather near or distant, that are not reconciled to our glorious state, and are brooding mischief, may be caught in their own snares; and all real friends, who are under our dominion, may attain their wishes, and prosper under the auspices of our muniscent government.

Dated 29th Zilkad, 1115 Hejira, Shahjehanabad or Dehli.

END OF THE TENTH POLUME.



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Errata.

Page 5, line 2, and Page 26, line 3, for stopped with a square board—read, executed to a point.—Page 42, line 2, instead of persualed—read, pursued—The Appendix, mentioned at Page 91, relating to the origin of the Mahrattas, is to be found in the IXth Volume, Page 233.—Page 99, last line but one from the bottom, for Abraia—read, Arabia.—Page 152, line 6th from the bottom, farm God—read, Gad.

I TAKE this opportunity to correct two passages in former Essays, one in the IVth Vol. of the Asiatic Researches, p. 382: and the second in the first part of my Essay on the Sacred Isles in the West, p. 302.

Li the latter, I said that the famous Pa'a'n-runi went no further than El-Catif and Bakarein, in his way to Egypt. But I'was mistakin; for his even attempted to go up the Tigris, and went even as far as Moc'ha.

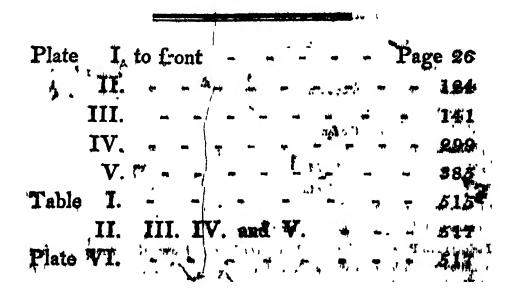
but I was equally mistaken; for, from his narrative, he certainly understood the Shat-al-A-rab, or the united stream of the Tigris and Euphrates.

I seldom saw Pr'A'n-runi, and he hardly condescended to answer my inquiries : hence the information which he communicated, was vague and defiltory. I did not advert then/to what Mr. Duncan has said on the subject in the Vth Vol. of the Asiatic Researches.

F. WILFORD.

Bananss, Feb. 20th, 1808.

Directions to the Binder.



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